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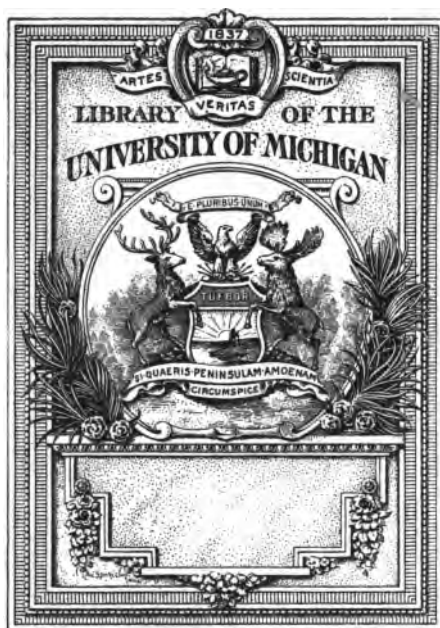
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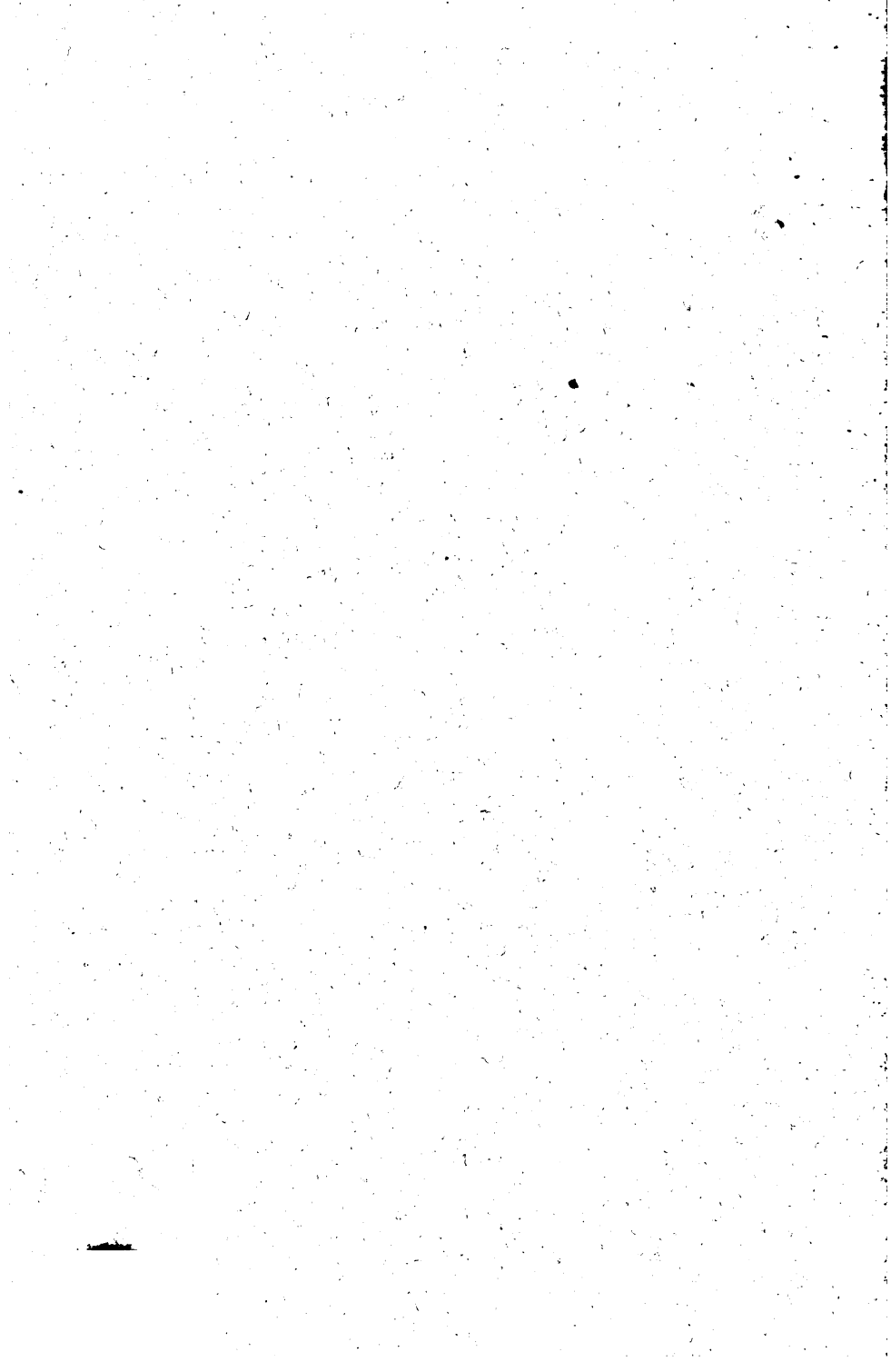
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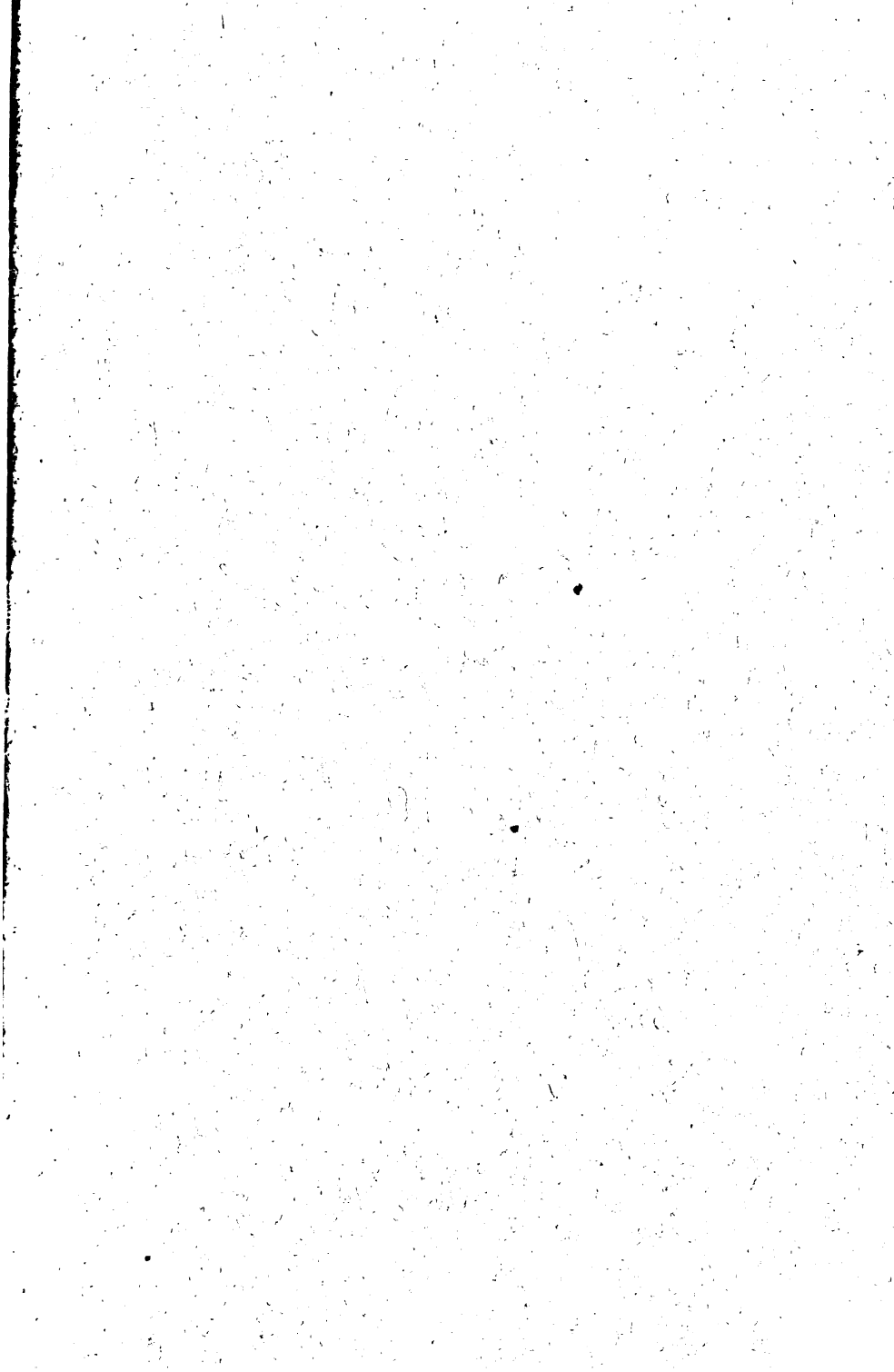
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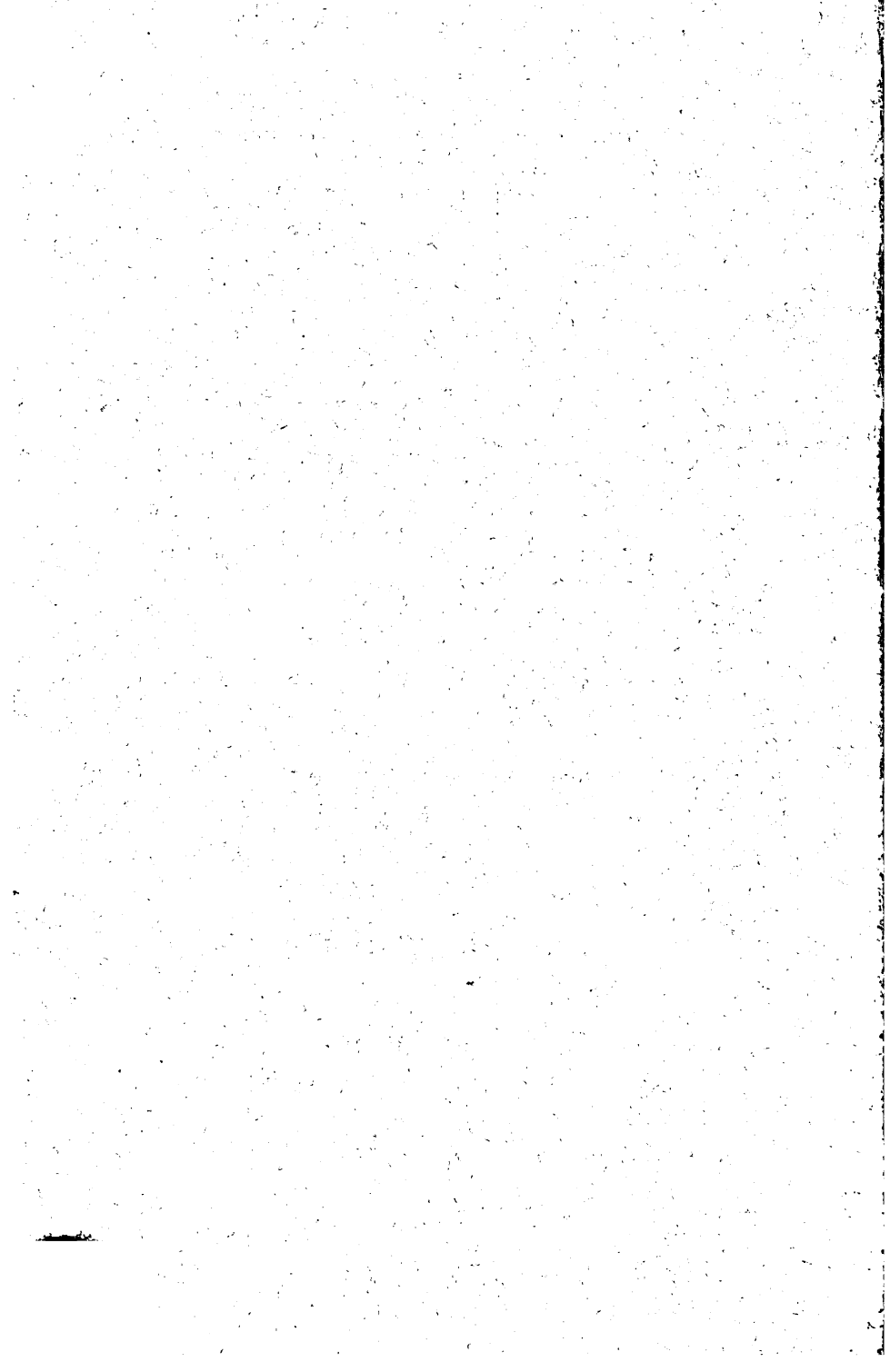
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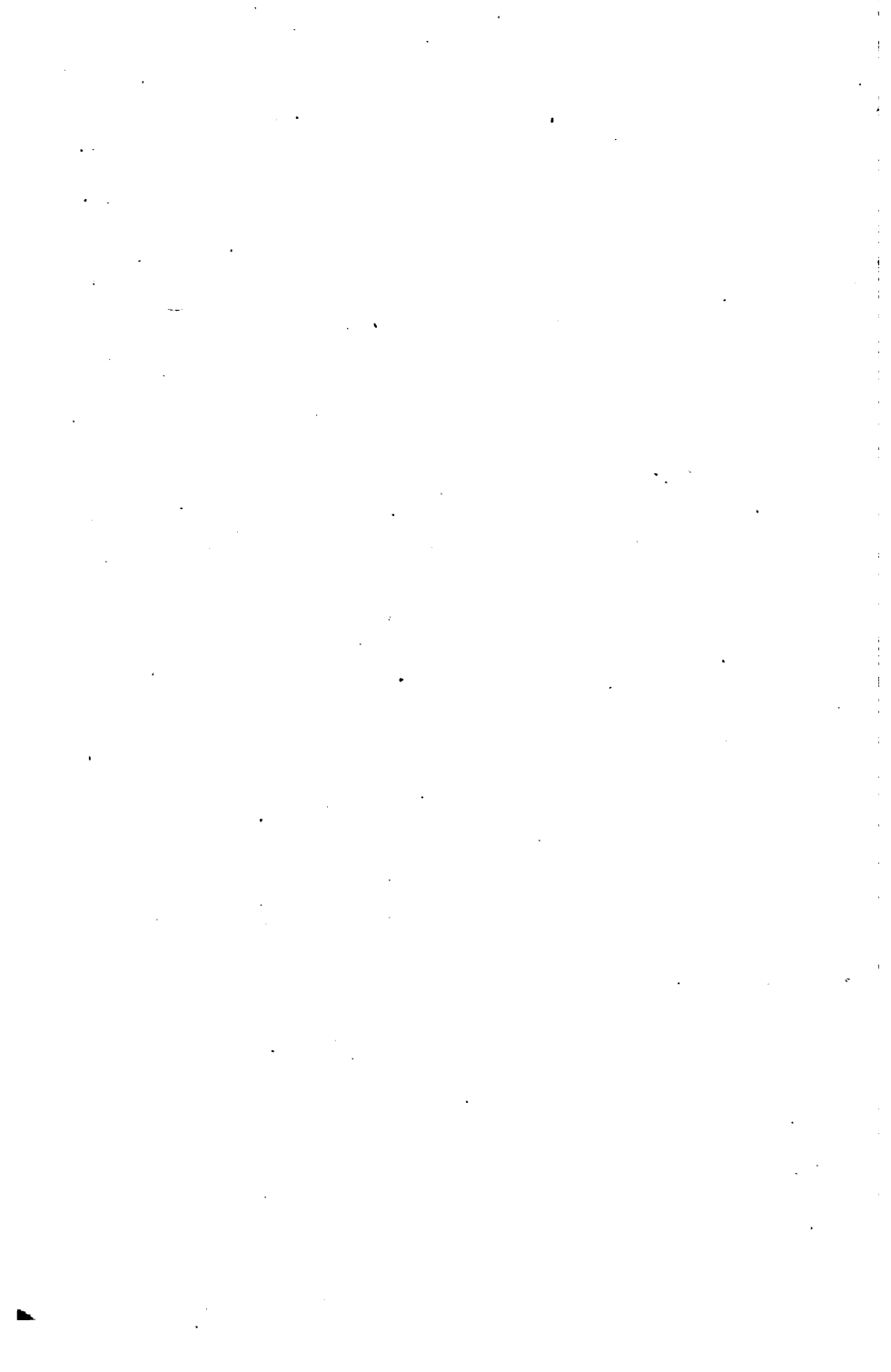


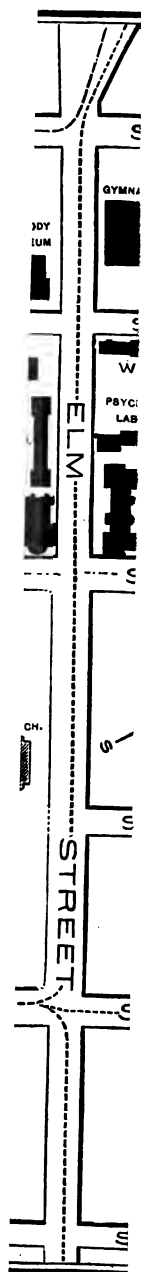
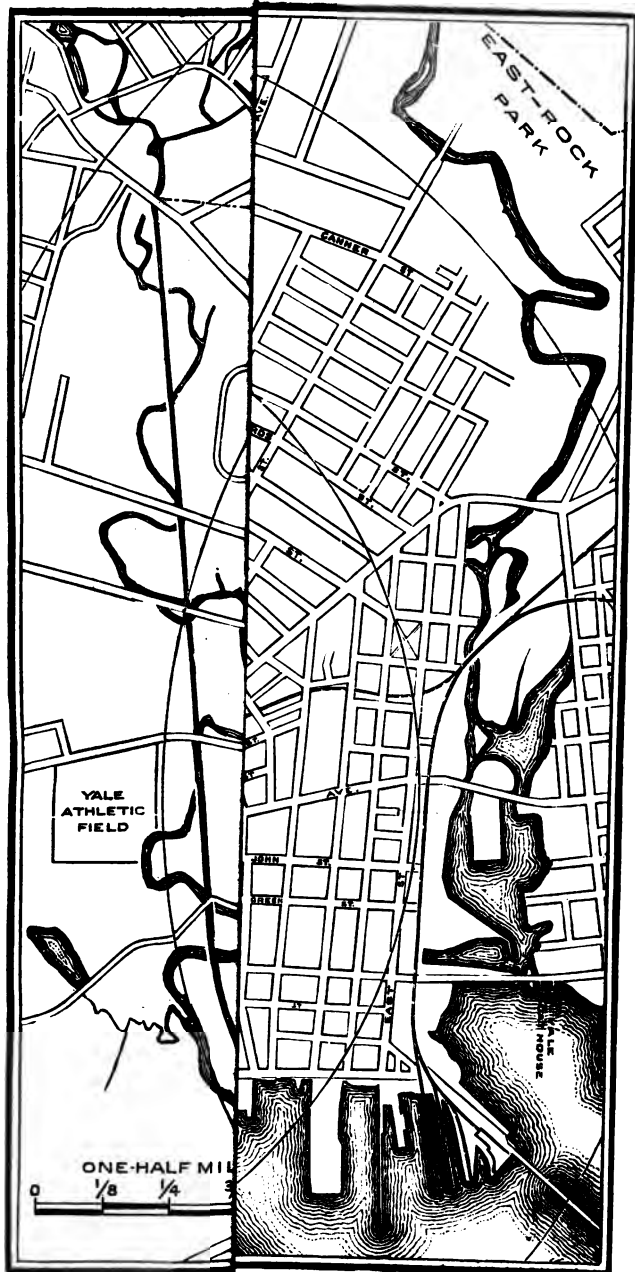


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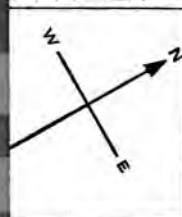
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- A. ART SCHOOL
- A. H. ALUMNI HALL
- B. SHEFFIELD BIOLOGICAL LABORATORY
- B. C. BATTALL CHAPEL
- *B. H. BERKELEY HALL
- C. OLD CHAPEL
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- L. LIBRARY
- L. H. LAWRENCE HALL
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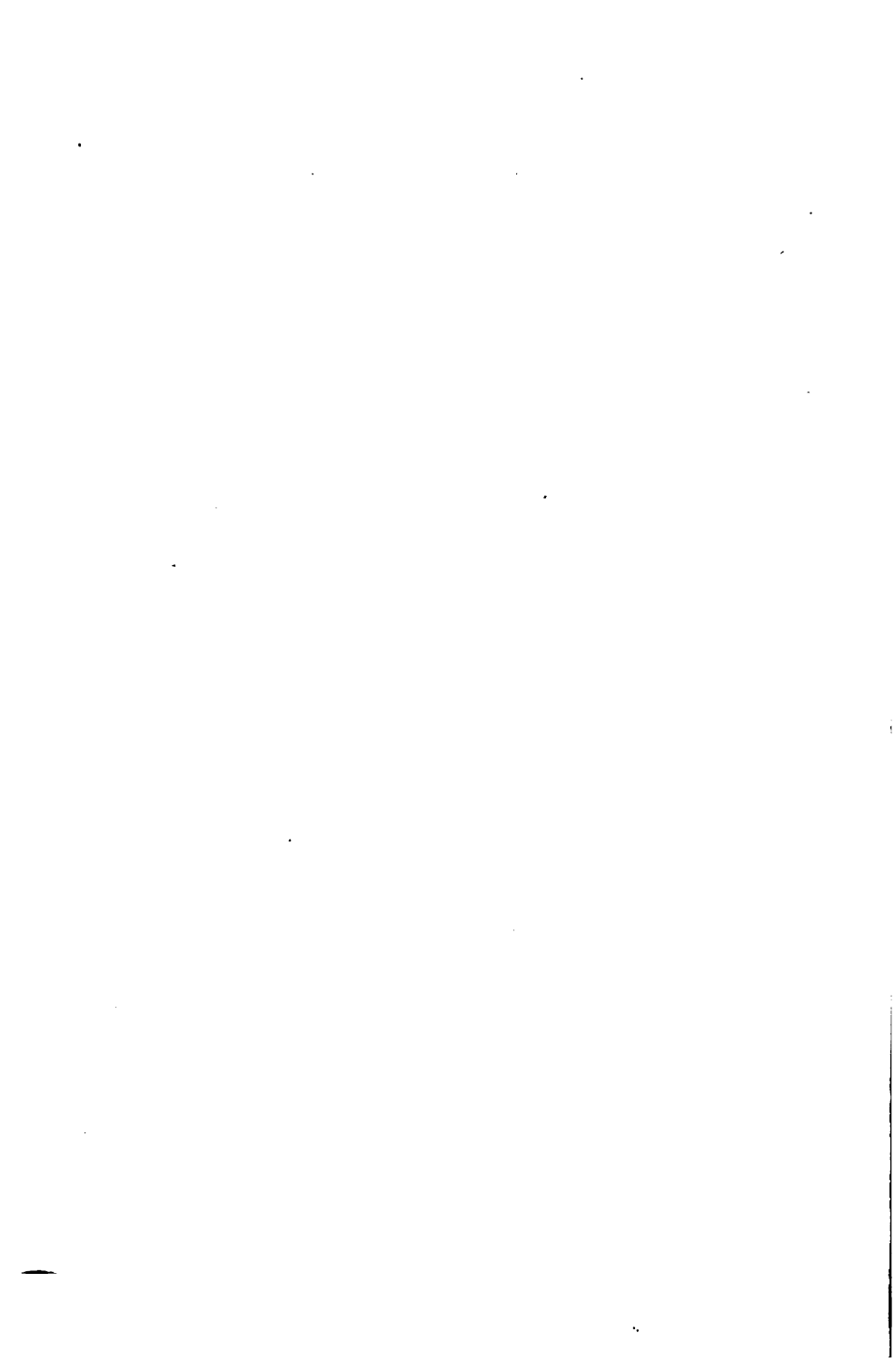
CXCIV YEAR

1893-94



NEW HAVEN:
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1893



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ABBREVIATIONS, OFFICE HOURS, ETC.

A., Absent on leave ; B., Sheffield Biological Laboratory ; C., Old Chapel ; D., Durfee Hall ; E. D., East Divinity Hall ; F., Farnam Hall ; L., Lawrance Hall ; LYC., Lyceum ; N., North College ; N. M., North Middle College ; N. S. H., North Sheffield Hall ; P., Peabody Museum ; S. H., Sheffield Hall ; S. M., South Middle College ; TR., Treasury Building ; W., Welch Hall ; W. D., West Divinity Hall ; WINCH., Winchester Hall.

Upon the College Square, the rooms numbered from 33 to 64 are in South Middle College ; from 65 to 96 in North Middle College ; from 97 to 128 in North College ; from 129 to 177 in Farnam Hall ; from 178 to 185 in the Lyceum ; from 186 to 200 in the Old Chapel ; from 201 to 240 in Durfee Hall ; from 241 to 282 in Lawrance Hall ; from 283 to 330 in Welch Hall.

The rooms in East Divinity Hall are numbered from 1 to 54 ; in West Divinity Hall from 55 to 124.

The rooms in Sheffield Hall are numbered from 1 to 21 ; in North Sheffield Hall from 25 to 58 ; in the Sheffield Biological Laboratory from 60 to 79 ; in Winchester Hall, from 100 to 135.

THE PRESIDENT is in his room, No. 7 Treasury Building, from 10.30 A. M. to 12 M., every week-day during term-time.

THE TREASURER'S OFFICE, No. 5 Treasury Building, is open from 9 A. M. to 3 P. M., every week-day during term-time, and from 10 A. M. to 1 P. M. during vacations.

THE SECRETARY'S office is in the Library, which is open every week-day during term-time, from 9.30 A. M. to 5 P. M.

THE DEAN OF THE COLLEGE is in his room, No. 136 Farnam Hall, every week-day during term-time, from 10 to 11.30 A. M.

THE DIRECTOR OF THE SHEFFIELD SCIENTIFIC SCHOOL is in his office, No. 3 Sheffield Hall, every week-day during term-time, from 10 A. M. to 12 M.

For Catalogues and general information, address THE SECRETARY OF YALE UNIVERSITY, NEW HAVEN, CONNECTICUT.

The Catalogue is published in December, and is sold at twenty-five cents a copy,—or thirty cents if postage is included. A copy of the special circular of any Department is furnished without charge.

A list of the Graduates of the University is published triennially,—the last edition in 1892 ; a copy will be supplied to any graduate desiring it, on receipt of the postage (nine cents) ; copies may be obtained by other persons at cost price, fifty cents, with postage.

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CALENDAR

1893

28 Sept.	Thursday	FIRST TERM begins.
2 Oct.	Monday	School of the Fine Arts, term begins.
5 Oct.	Thursday	First Term, Medical School, begins.
29 Nov.	Wednesday	THANKSGIVING RECESS begins, 1 P. M.
1 Dec.	Friday	RECESS ends, 8 A. M.
20 Dec.	Wednesday	FIRST TERM ends.

Winter Vacation

1894

9 Jan.	Tuesday	SECOND TERM begins.
11 Jan.	Thursday	Second Term, Medical School, begins.
15 March	Thursday	Junior Exhibition.
21 March	Wednesday	SPRING RECESS begins, 1.20 P. M.
29 March	Thursday	RECESS ends, 8 A. M.
12 April	Thursday	Spring Term, Law School, begins.
1 May	Tuesday	John A. Porter Prize Essays due.
7 May	Monday	Berkeley Scholarship Examination.
7 May	Monday	Bristed Scholarship Examination begins.
16 May	Wednesday	Anniversary of the Divinity School.
21 May	Monday	Woolsey Scholarship Examination begins.
21 May	Monday	Winthrop Prize Examination.
31 May	Thursday	School of the Fine Arts, term ends.
24 June	Sunday	Baccalaureate Sermon.
25 June	Monday	Presentation for Academical Degrees.
25 June	Monday	Anniversary of the Sheffield Scientific School.
26 June	Tuesday	Anniversary Meeting of the Alumni.
26 June	Tuesday	Anniversary of the Medical School.
26 June	Tuesday	Anniversary of the Law School.
27 June	Wednesday	COMMENCEMENT.
28 June	Thursday	Examinations for admission begin.

Summer Vacation

24 Sept.	Monday	Examinations for admission begin.
27 Sept.	Thursday	FIRST TERM begins.
1 Oct.	Monday	School of the Fine Arts, term begins.
4 Oct.	Thursday	First Term, Medical School, begins.
19 Dec.	Wednesday	FIRST TERM ends.

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Lecturer on Transfer of Monetary Securities New York City
-
- Instructor in Architecture*

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Lecturer on Federal Jurisprudence New York City
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Instructor in History 135 Whitney av.
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Assistant in Pathology 221 Crown st.
- EDWARD V. RAYNOLDS, D.C.L.
Lecturer on Constitutional Law 62 Trumbull st.
- HOWARD H. KNAPP, B.A., LL.B.
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Demonstrator of Bacteriology 305 Howard av.
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Assistant in Physics 44 Lyon st.
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JOSEPH H. TOWNSEND, M.D. <i>Demonstrator of Obstetrics</i>	93 Howe st.
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JOHN WHITMORE, PH.D. <i>Instructor in Physics</i>	147 Bradley st.
ARTHUR N. ALLING, M.D. <i>Clinical Assistant in Ophthalmology</i>	214 Crown st.
LOUIS B. BISHOP, M.D. <i>Assistant in the Surgical Clinic</i>	77 Whitney av.
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WILLIAM A. SETCHELL, PH.D. <i>Instructor in Biology</i>	2 Hillhouse av.
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HANNS OERTEL, PH.D. <i>Instructor in German and Comparative Philology</i>	31 York sq.
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Instructor in History 43 Whalley av.
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Assistant in German 297 Crown st.
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Laboratory Assistant in Physiological Chemistry 2 Hillhouse av.
- RALPH A. McDONNELL, M.D.
Clinical Assistant in Dermatology 312 Elm st.
- CHARLES B. BLISS, PH.D.
*Lecturer on Psychophysics, and Assistant in the
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- HARRY G. DAY, PH.B., LL.B.
Instructor of Quiz-Clubs 419 Temple st.
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Instructor in Physics (119 WINCH.) 83 Grove st.
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- WESLEY R. COE, PH.B.
Laboratory Assistant in Biology 2 Hillhouse av.
- ARTHUR L. DAY, B.A.
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- PERCY T. WALDEN, PH.B.
Laboratory Assistant in Analytical Chemistry 338 Orange st.
- HENRY S. ANDERSON,
Instructor in Gymnastics (Gymnasium) 99 Howe st.

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D. ALBERT KREIDER, B.A. <i>Laboratory Assistant in Chemistry</i>	(Kent Lab'y.) 266 York st.
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WILLIAM T. H. HOWE, PH.B. <i>Laboratory Assistant in Chemistry</i>	53 Prospect st.
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JOSEPH H. PRATT, PH.B. <i>Laboratory Assistant in Chemistry</i>	414 Crown st.
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CHARLES B. HALL, <i>Assistant in Chemistry</i>	399 Elm st.

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- ANNIE E. HUTCHINS, *Assistant in the Library* (Library) 203 Norton st.
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- GEORGE H. BUTLER, *Clerk in the Treasurer's Office* (5 TR.) 136 Dwight st.
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- Mrs. JESSIE C. HARGER, *Assistant in the Library*
(Library) 14 University pl.
- Mrs. HENRIETTA C. GILBERT, *Assistant in the Library*
(Library) 6 University pl.
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- VERTNER KENERSON, M.A., *Proctor, and Steward of the Dining Hall* 1018 Chapel st.

GRADUATE FELLOWS AND SCHOLARS

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KAZUTAMI UKITA, <i>Scholar in the Graduate Department</i>	55 Clark st.
CHARLOTTE C. BARNUM, B.A., <i>Scholar in the Graduate Department</i>	144 Humphrey st.
EMILY M. BROWN, B.A., <i>Scholar in the Graduate Department</i>	56 Grove st.
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FRANK E. BRADSHAW, M.A., <i>Fellow in the Graduate Department</i>	57 Pearl st.
MARY A. SHUTE, B.A., <i>Scholar in the Graduate Department</i>	591 Orange st.
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GEORGE C. THOMPSON, B.A., <i>Scholar in the Graduate Department</i>	383 George st.
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CLIFTON PRICE, B.A., <i>Fellow in the Graduate Department</i>	131 Howe st.
CHARLES B. BLISS, Ph.D., <i>Fellow in the Graduate Department</i>	43 Whalley av.
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CARL E. SEASHORE, B.A., <i>Scholar in the Graduate Department</i>	149 St. John st.
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JESSE B. JOHNSON, B.A., <i>Foote Fellow in the Academical Department</i>	29 Lake pl.

- PAUL KLIMPKE, B.A., *Scholar in the Graduate Department* 53 Prospect st.
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- M. VICTOR STALEY, B.A., *Scholar in the Graduate Department* 125 Dwight st.
- ANNIE B. TOMLINSON, B.A., *Scholar in the Graduate Department* 18 Trumbull st.
- JOHN D. WARNOCK, B.A., *Foots Fellow in the Academical Department* 122 Howe st.
- LEMUEL A. WELLES, B.A., *Macy Fellow in the Academical Department* 82 Broadway
- ARTHUR L. WHEELER, B.A., *Clark Scholar and Waterman Scholar in the Academical Department* 1368 Chapel st.

GOVERNMENT OF THE UNIVERSITY

The legal designation of the Corporation is "THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN," or "YALE UNIVERSITY;" the powers of this body have been granted and confirmed in the following order.

THE COLLEGIATE SCHOOL OF CONNECTICUT, subsequently named YALE COLLEGE, and now called YALE UNIVERSITY, was founded in the summer of 1701 by the combined action of a few of the ministers in Connecticut, who obtained in October of that year a Charter from the Colony Legislature, which runs as follows:—

AN ACT FOR LIBERTY TO ERECT A COLLEGIATE SCHOOL.

WHEREAS several well disposed, and Publick spirited Persons of their sincere regard to & Zeal for upholding & Propagating of the Christian Protestant Religion by a succession of Learned & Orthodox men have expressed by Petition their earnest desires that full Liberty and Priveledge be granted unto certain Undertakers for the founding, suitably endowing & ordering a Collegiate School within his Maj^{ty} Colony of Connecticut wherein Youth may be instructed in the Arts & Sciences who thorough the blessing of Almighty God may be fitted for Publick employment both in Church & Civil State. To the intent therefore that all due incouragement be Given to such Pious Resolutions and that so necessary & Religious an undertakeing may be sett forward, supported and well managed:—

BE IT ENACTED by the Govern^r & Company of the s^d Colony of Connecticut in General Court now Assembled, And it is enacted & ordained by the Authority of the same that there be & hereby is full Liberty, Right and Priveledge Granted unto the Reverend M^r. James Noyes of Stonnington, M^r. Israel Chauncey of Stratford, M^r. Thomas Buckingham of Saybrook, M^r. Abraham Pierson of Kennelworth, M^r. Samuel Mather of Windsor, M^r. Samuel Andrew of Milford, M^r. Timothy Woodbridge of Hartford, M^r. James Pierpont of New Haven, M^r. Noadiah Russel of Middletown, M^r. Joseph Webb of Fairfield, being Rev^d Ministers of the Gospel & inhabitants within y^e s^d Colony,

proposed to stand as Trustees, Partners or Undertakers for the s^d School, to them and their successors, To ERECT, form, direct, order, establish, improve and att all times in all suitable wayes for the future to encourage the s^d School in such convenient place or Places, & in such form & manner & under such orders & Rules as to them shall seem meet & most conducive to the afores^d end thereof, so as such Rules or Orders be not repugnant to the Laws of the Civil Govern^t, as also to employ the moneys or any other estate which shall be Granted by this Court or otherwise Contributed to that use according to their discretion for the benefit of the s^d Collegiate School from time to time & att all times henceforward.

And be it further ENACTED by the Authority afores^d that the before named Trustees, Partners or Undertakers together with such others as they shall associate to themselves (not exceeding the number of Eleven, or att any time being less than Seven. Provided also that Persons nominated or associated from time to time to fill up s^d number be ministers of the gospel inhabiting within this Colony & above the Age of forty years) or the major Part of them, the s^d Mr. James Noyes, [etc.] undertakers, & of such Persons so chosen & associated as aboves^d att any time hereafter, HAVE and shall have henceforward the oversight, full & compleat Right, Liberty, power & Priveledge to furnish, direct, manage, order, improve & encourage from time to time & in all times hereafter the s^d Collegiate School so Erected & formed by them in such ways, orders & manner & by such Persons, Rector or Master and officers appointed by them, as shall according to their best discretion be most conducive to attaine the afores^d mentioned end thereof.

It is also further Enacted by the Authority afores^d that the s^d Undertakers & Partners & their successors be & hereby are further empowered to have, accept, acquire, purchase or otherwise lawfully enter upon Any Lands, Tenements & Hereditam^{ts} to the use of the s^d School, not exceeding the value of five hundred Pounds p^r Anñ, & any Goods, Chattels, Sum or Sums of money whatsoever as have heretofore already been Granted, bestowed, bequeathed or given, or as from time to time shall be freely given, bequeathed, devised or settled by any Person or Persons whatsoever upon & to & for the use of y^e s^d School towards the founding, erecting or endowing the same, & to sue for, Recover & receiv all such Gifts, Legacies, bequests, annuities, Rents, issues & profits arising therefrom & to imploy the same accordingly, & out of y^e estate, Revenues, Rents, profits, incoms accruing & belonging to s^d School to support & pay as the s^d Undertakers shall agree & see cause, the s^d Rector or Master, Tutors, Ushers or other officers their Respective annual Salaries or Allowances. As also for the encouragem^t of the Students to grant degrees or Licences as they or those deputed by them shall see cause to order & appoint.

Under this Charter the Collegiate School was begun in November, 1701, at Saybrook, where it continued until its removal to New Haven, in October, 1716. In September, 1718, the name of YALE COLLEGE was given by the Trustees to the School, in honor of the benefactions of ELIHU YALE, of London, lately Governor of the East India Company's settlement at Madras.

In 1723 an "ACT IN EXPLANATION OF AND ADDITION TO THE ACT FOR ERECTING A COLLEGIATE SCHOOL" was passed by the General Assembly, with the following provisions :—

WHEREAS Pursuant to the Powers and Priviledges granted to Certain Trustees for Erecting a Collegiate School in this Colony Entituled an Act for a Collegiate School, the Said Trustees have Erected the said School in the Town of New-Haven which School is now known by the Name of Yale Colledge ; And Whereas it appears to this Assembly that an Explanation and Enlargement of the powers and priviledges granted by Said Act is Necessary for the Carrying on the Affairs of the Said Colledge, for want of which it has Laboured under great difficulties very much to the prevention of that Order and good Education which is to be desired there :

Bee it therefore Enacted by the Governour, Council and Representatives in General Court assembled and by the Authority of the Same that the Said Act which provides that the Number of the Said Trustees be not under Seven nor above Eleven is not to be Understood or Taken so as to be restrictive of the power of the Said Trustees Never to Choose any person to be a Trustee, when there is of Such persons as have been Chosen and Acted as Trustees Eleven persons Living in the Colony or Elsewhere, but that in Case any person so Chosen be by Providence Incapacitated from attending that Service or shall himself decline the Same thro' the Necessity of his own Affairs or for any other such Reason as he shall Judge requisite, the Trustees in any of their Meetings Lawfully Called may be Understood to have and it is hereby Enacted and declared that they shall be Taken to have full power by the Majority of Such Meeting to proceed to the Choice of Another Trustee in the Room of any such person. And it is hereby further declared and Enacted to be the True Intent and Meaning of the Act afores^d that the said Trustees shall be Impowered and they are hereby declared to have power to Meet Together for Considering, Advising about and Resolving upon all Matters belonging to the Trust of the Said Colledge committed unto them as afores^d and to Agree and Conclude, Order and determine Concerning them by the Majority of the

Said Meeting, and by the same Majority to Choose and Appoint a Clerk who shall, in a fair book prepared for that End, Register and Carefully preserve the Acts of all such Meetings.

And WHEREAS it has been doubted what Number of the Said Trustees may be Lookt upon as a Sufficient or full Meeting, Inasmuch as there is not in the afores^d Act any Express mention made of any Meeting of the said Trustees; It is therefore to prevent all Scruple of that kind for the future hereby provided and declared that due Notice being given to the Trustees by Consent of any three of them of a Meeting of the Trustees desired at any Time or place, and Seven or more of the Trustees present at such Time and place shall be Esteemed a full Meeting. And it is hereby declared and Enacted that in all such Meetings, so Called, or Otherwise as the said Trustees in any such Meeting shall agree, all affairs under the Care of the said Trustees shall be determined by the majority of such meeting.

And WHEREAS it has been found Inconvenient that in the Election of Persons to be Trustees, the Trustees Election by the afores^d Act should by Limited and restrained so as that the Person who shall be Chosen must Necessarily be forty Years of age ; It is hereby declared and Enacted that for the future the said Trustees in any Election of a person into that Trust shall not be Esteemed or held Obliged by said Act to Choose such a person as shall be above forty Years of Age, but may Choose such a person otherwise Qualified According to said Act, Provided he is thirty Years of Age. And it is further hereby Allowed, Enacted, Granted and Provided that whosoever shall be Chosen and made a Rector of the said Colledge shall by Virtue thereof become a Trustee of the same and be so Esteemed and Taken during his Continuance in the said Rectorship.

In 1745 a thoroughly revised Charter was granted by the Assembly ; the provisions of permanent interest are as follows :—

An ACT for the more full and complete Establishment of YALE COLLEGE in NEW HAVEN, and for enlarging the Powers and Privileges thereof.

WHEREAS upon the Petition of several well-disposed and public-spirited Persons expressing their desire that full Liberty and Privilege might be granted unto Certain Undertakers for the founding, suitably endowing and ordering a *Collegiate School*, within this Colony, wherein Youth might be instructed in the Arts and Sciences, the Governor and Company of the said Colony in General Court assembled at *New Haven*, on the Ninth Day of October, in the Year of our Lord

1701, Granted unto the Rev'd Messrs. *James Noyes* [etc.], who were proposed to stand as Trustees, Partners or Undertakers for the Society, and to their Successors, full Liberty, Right and Privilege to erect, form, direct, order, establish, improve, and at all Times in all suitable Ways to encourage the said School in some convenient Place in this Colony, and granted sundry Powers and Privileges for the attaining the End aforesaid ;

And Whereas the said Trustees, Partners or Undertakers in pursuance of the aforesaid Grant, Liberty and License, founded a *Collegiate School* at *New Haven*, known by the Name of *YALE COLLEGE*, which has received the favorable Benefactions of many Liberal and piously disposed Persons, and under the Blessing of Almighty God has trained up many worthy Persons for the Service of God in the State as well as in the Church ;

And Whereas the General Court of this Colony assembled at *New Haven*, the Tenth day of October, in the Year of our Lord 1723, did explain and enlarge the aforesaid Powers and Privileges granted to the aforesaid Partners, Trustees or Undertakers and their Successors, for the Purpose aforesaid ; as by the respective Acts, reference thereto being had, more fully and at large may appear ;

And Whereas the Rev'd Messrs. *Thomas Clap*, *Samuel Whitman*, *Jared Eliot*, *Ebenezer Williams*, *Jonathan Marsh*, *Samuel Cooke*, *Samuel Whittelsey*, *Joseph Noyes*, *Anthony Stoddard*, *Benjamin Lord*, and *Daniel Wadsworth*, the present Trustees, Partners and Undertakers of the said School, and Successors of those beforementioned, have petitioned, that the said School, with all the Rights, Powers, Privileges and Interests thereof, may be confirmed, and that such other additional Powers and Privileges may be granted as shall be necessary for the Ordering and Managing the said School, in the most advantageous and beneficial Manner for the promoting all good Literature in the present and succeeding Generations :

Therefore,

THE GOVERNOR and COMPANY of his Majesty's said English Colony of *Connecticut* in General Court assembled, this Ninth Day of *May*, in the Year of our Lord 1745, enact, ordain, and declare, and by these Presents it is enacted, ordained and declared—

That the said *Thomas Clap* [etc.], shall be an *Incorporate Society or Body Corporate and Politic*, and shall hereafter be called and known by the name of THE PRESIDENT AND FELLOWS OF YALE COLLEGE IN NEW HAVEN, and that by the same Name they and their Successors shall and may have perpetual Succession, and shall and may be Persons in the Law capable to plead and be impleaded, defend and be defended, and answer and be answered unto ; and also to have, take, possess, acquire, purchase or otherwise receive Lands, Tenements, Hereditaments, Goods, Chattels, or other Estates, and the same Lands, Tenements,

Hereditaments, Goods, Chattels, or other Estates to grant, demise, lease, use, manage or improve for the Good and benefit of the said *College*, according to the Tenor of the Donation, and their Discretion.

That all Gifts, Grants, Bequests, and Donations of Lands, Tenements, or Hereditaments, of Goods and Chattels heretofore made to or for the Use, Benefit and Advantage of the *Collegiate School* aforesaid, whether the same be expressed to be made to the President or Rector, and to the rest of the Incorporate Society of *Yale College*, or to the Trustees or Undertakers of the *Collegiate School in New Haven*, or to the Trustees by any other Name, Style or Title whatsoever, whereby it may be clearly known and understood that the true Intent and Design of such Gifts, Grants, Bequests and Donations, was to or for the Use, Benefit and Advantage of the Collegiate School aforesaid, and to be under the Care and Disposal of the Governors thereof, shall be confirmed, and the same hereby are confirmed, and shall be and remain to, and be vested in the President and Fellows of the *College* aforesaid, and their Successors, as to the true and lawful Successors of the original Grantees.

That the said PRESIDENT AND FELLOWS and their Successors shall and may hereafter have a common Seal, to serve and use for all Causes, Matters and Affairs of them and their Successors, and the same Seal to alter, break and make new as they shall think fit.

That the said THOMAS CLAP shall be, and he is hereby established the present PRESIDENT, and the said *Samuel Whitman* [etc.], shall be, and they are hereby established the present FELLOWS of the said *College*, and that they and their Successors shall continue in their respective Places during Life, or until they or either of them shall resign, or be removed, or displaced, as in this Act is hereafter expressed.

That there shall be a General Meeting of the *President and Fellows* of said *College*, in the College Library on the second Wednesday of September annually, or at any other Time and Place which they shall see Cause to appoint, to consult, advise and act in and about the Affairs and Business of the said *College*; and that on any special Emergency, the President and two of the Fellows, or any four of the Fellows, may appoint a Meeting of the said *College*, provided they give Notice thereof to the Rest by Letters sent and Left with them, or at the Places of their respective Abode, five Days before such Meeting; and that the President and six Fellows, or in Case of the Death, Absence, or Incapacity of the President, seven Fellows, convened as aforesaid (in which Case the eldest Fellow shall preside), shall be deemed a Meeting of the President and Fellows of said *College*, and that in all the said Meetings, the Major Vote of the Members present shall be deemed the Act of the Whole, and where an Equivote happens, the President shall have a casting Vote.

That the President and Fellows of the said *College* and their Successors, in any of their Meetings assembled as aforesaid, shall and may

from Time to Time, as Occasion shall require, elect and appoint a President or Fellow in the Room and Place of any President or Fellow who shall die, resign, or be removed from his office, Place or Trust (whom the said Governor and Company hereby declare, for any Misdemeanor, Unfaithfulness, Default or Incapacity, shall be removable by the President and Fellows of the said College; Six of them, at least, concurring in such Act); and shall have Power to appoint a Scribe or Register, a Treasurer, Tutors, Professors, Steward and all such other Officers and Servants, usually appointed in Colleges or Universities, as they shall find necessary and think fit to appoint for the promoting good Literature, and the well ordering and managing the Affairs of said College; and them or any of them, at their Discretion, to remove; and to prescribe and administer such Forms of Oaths (not being contrary to the Laws of England or of this Colony) as they shall think proper, to be administered to all the Officers and Instructors of the said College, or to such and so many of them as they shall think proper, for the faithful Execution of their respective Places, Offices and Trusts.

That the President and Fellows shall have the Government, Care and Management of the said College and all the Matters and Affairs thereunto belonging, and shall have Power from Time to Time, as Occasion shall require, to make, ordain and establish all such wholesome and reasonable Laws, Rules and Ordinances, not repugnant to the Laws of England, nor the Laws of this Colony, as they shall think fit and proper for the Instruction and Education of the Students, and Ordering, Governing, Ruling and Managing the said College, and all Matters, Affairs, and Things thereunto belonging, and the same to Repeal and alter as they shall think fit.

That the President of said College, with the Consent of the Fellows, shall have Power to give and confer all such Honors, Degrees or Licenses as are usually given in Colleges or Universities, upon such as they shall think worthy thereof.

In 1792 a grant of money from the State of Connecticut was received, upon the condition that certain State officials should become members of the Board of Fellows, as below expressed :—

In case this grant shall be accepted, in manner as hereinafter provided, the Governor, Lieutenant Governor, and six senior assistants in the Council* of this State, for the time being, shall ever hereafter, by virtue of their said offices, be trustees or fellows of said College; and shall together with the present President and Fellows of said College, and their successors, constitute one corporation, by the name and style

* Changed in 1819 to the six senior senators.

mentioned in the charter of said College ; and shall have and enjoy the same powers, privileges, and authority, in as full and ample a manner, as though they had been expressly named and included in said charter ; And that in case of vacancy, by the death, or resignation, or in any other way, of any of the present Fellows of said College, and their successors, every such vacancy shall forever hereafter be supplied by them, and their successors, by election, in the same manner as though this act had never passed.

In the new Constitution of the State, adopted in 1818, the privileges conferred by the Charter were reaffirmed, as follows :—

ARTICLE VIII, SECT. I.

The charter of Yale College, as modified by agreement with the Corporation thereof, in pursuance of an Act of the General Assembly, passed in May, 1792, is hereby confirmed.

In 1872, at the request of the Corporation, an Act was passed by the General Assembly, providing (as follows) for the substitution of graduates in the place of the six senators among the Fellows :—

SECTION 1.—All graduates of the first degree, of five or more years' standing, in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, on the day next preceding the public commencement day of said College, in the year of our Lord 1872, cast their votes, under such regulations as the President and Fellows may prescribe, for six persons to be chosen from among such graduates ; and the six persons who shall be found to be elected by a plurality of the votes cast, shall be the Fellows of Yale College in the stead of the six senior senators of the State, and shall have all the rights, duties, and privileges as Fellows which are now by law conferred upon said senators. In case of an equality of votes between two or more candidates, the person who shall hold the said office of Fellow shall be designated by lot from among the persons receiving such equality of votes.

SECTION 2.—The Fellows thus elected shall enroll themselves by lot in six classes, one holding the office for six years, another for five years, another for four years, another for three years, another for two years, and another for one year, eligible for re-election ; and every year as a vacancy occurs, all graduates of the first degree, of five or more years' standing

in any of the departments of Yale College, and all persons who have been admitted to any degree higher than the first in Yale College, whether honorary or in course, may, upon the day next preceding commencement day, in the manner heretofore prescribed, elect by a plurality of votes a person to fill the vacancy, and hold the office of Fellow for a period of six years, eligible for re-election ; and so whenever a vacancy shall occur from death, resignation, or any other cause, such graduates may elect a person at the next commencement to fill the office of Fellow for the remainder of the term in which a vacancy has occurred. The official year of such Fellows shall end with the day next preceding each commencement day.

In January, 1887, an Act passed the General Assembly of the State, authorizing the use of the title "YALE UNIVERSITY" by the President and Fellows of Yale College, and providing that gifts to, contracts with, conveyances to or by, and other acts affecting said Corporation by either of the names specified shall be valid.

DEPARTMENTS OF INSTRUCTION

The courses of study offered in the University are comprehended in four Departments, under the control of the Corporation, each Department being also under the administration of a distinct Faculty of instruction. The Departments are as follows :—

THE DEPARTMENT OF PHILOSOPHY AND THE ARTS ;

THE DEPARTMENT OF THEOLOGY ;

THE DEPARTMENT OF MEDICINE ;

THE DEPARTMENT OF LAW.

Under the first-named Department are included two separately organized sections in which instruction for undergraduates is provided, viz :—

THE ACADEMICAL DEPARTMENT, and

THE SHEFFIELD SCIENTIFIC SCHOOL ;

also, THE SCHOOL OF THE FINE ARTS, and the MUSICAL DEPARTMENT, each with a special organization ; and The Courses for GRADUATE INSTRUCTION, under the combined Faculty of the Department.

It is to be understood that the courses of instruction above described are open to persons of the male sex only, except when both sexes are specifically included.

The LIBRARY, the PEABODY MUSEUM OF NATURAL HISTORY, and the OBSERVATORY are severally organized independently of the special Departments, and are designed to contribute, in their appropriate spheres, to the instruction and advancement of the whole institution.

ACADEMICAL DEPARTMENT

(YALE COLLEGE)

FACULTY

REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
JAMES D. DANA, PH.D., LL.D., *Professor of Geology and Mineralogy*
EDWARD J. PHELPS, LL.D., *Professor of Law*
HUBERT A. NEWTON, LL.D., *Professor of Mathematics*
ARTHUR M. WHEELER, M.A., *Professor of History*
J. WILLARD GIBBS, PH.D., LL.D., *Professor of Mathematical Physics*
ARTHUR W. WRIGHT, PH.D., *Professor of Experimental Physics*
EUGENE L. RICHARDS, M.A., *Professor of Mathematics*
TRACY PECK, M.A., *Professor of Latin*
REV. CORNELIUS L. KITCHEL, M.A., *Instructor in Greek*
WILLIAM G. SUMNER, LL.D., *Professor of Political and Social Science*
REV. GEORGE T. LADD, D.D., *Professor of Moral Philosophy and Meta-
physics*
CHARLES H. SMITH, M.A., *Professor of American History*
JULES LUQUIENS, PH.D., *Professor of Modern Languages*
HENRY P. WRIGHT, PH.D., *Professor of Latin, and Dean*
HENRY S. WILLIAMS, PH.D., *Professor of Geology*
HENRY A. BEERS, M.A., *Professor of English Literature*
BERNADOTTE PERRIN, PH.D., LL.D., *Professor of Greek*
EDWARD S. DANA, PH.D., *Professor of Physics*
THOMAS D. SEYMOUR, M.A., *Professor of Greek*
FRANK A. GOOCH, PH.D., *Professor of Chemistry*
ALBERT S. COOK, PH.D., L.H.D., *Professor of English*
WILLIAM BEEBE, B.A., *Assistant Professor of Mathematics and Astronomy*
ANDREW W. PHILLIPS, PH.D., *Professor of Mathematics*
GEORGE B. ADAMS, PH.D., *Professor of History*
EDWARD P. MORRIS, M.A., *Professor of Latin*
HENRY R. LANG, PH.D., *Assistant Professor of the Romance Languages*
EDWARD B. CLAPP, PH.D., *Assistant Professor of Greek*
ARTHUR T. HADLEY, M.A., *Professor of Political Economy*

THOMAS D. GOODELL, PH.D., *Professor of Greek*
ARTHUR H. PALMER, M.A., *Professor of German*
HORATIO M. REYNOLDS, B.A., *Professor of Greek*
FRANK P. GOODRICH, PH.D., *Instructor in German*
GEORGE M. DUNCAN, M.A., *Assistant Professor of Philosophy*
E. HERSHEY SNEATH, PH.D., *Assistant Professor of Philosophy*
FRANK K. SANDERS, PH.D., *Assistant Professor of Biblical Literature*
GUSTAV F. GRUENER, B.A., *Assistant Professor of German*
HARLEY F. ROBERTS, M.A., *Tutor in Latin*
EDWARD W. SCRIPTURE, PH.D., *Instructor in Experimental Psychology*
JAMES J. ROBINSON, PH.D. *Instructor in Latin*
JUDSON S. DUTCHER, B.A., *Tutor in Mathematics*
JOHN C. SCHWAB, PH.D., *Assistant Professor of Political Economy*
WARREN A. ADAMS, B.A., *Instructor in German*
CARLETON L. BROWNSON, B.A., *Tutor in Greek*
WILLIAM LYON PHELPS, PH.D., *Instructor in English Literature*
IRVING FISHER, PH.D., *Assistant Professor of Mathematics*
GUY V. THOMPSON, B.A., *Tutor in Latin*
ARTHUR W. COLTON, PH.D., *Instructor in English*
JOSEPH BOWDEN, JR., B.A., *Tutor in Mathematics*
ALFRED K. MERRITT, B.A., *Registrar*

OTHER INSTRUCTORS

REV. JAMES M. HOPPIN, D.D., *Professor of the History of Art*
WILLIAM D. WHITNEY, PH.D., LL.D., *Professor of Comparative Philology and Sanskrit*
MARK BAILEY, M.A., *Instructor in Elocution*
GUSTAVE J. STÖCKEL, MUS.D., *Professor of Music*
WILLIAM H. BREWER, PH.D., *Professor of Agriculture*
WILLIAM C. ROBINSON, LL.D., *Professor of Law*
DANIEL C. EATON, M.A., *Professor of Botany*
JOHN F. WEIR, N.A., M.A., *Professor of Painting and Design*
JOHN H. NIEMEYER, M.A., *Professor of Drawing*
SIDNEY I. SMITH, M.A., *Professor of Comparative Anatomy*
RUSSELL H. CHITTENDEN, PH.D., *Professor of Physiological Chemistry*
FREDERICK WELLS WILLIAMS, B.A., *Instructor in History*

OLAUS DAHL, PH.D., *Instructor in Swedish and Danish*

JOHN WHITMORE, PH.D., *Instructor in Physics*

HARRY B. FERRIS, M.D., *Assistant Professor of Anatomy*

HANNS OERTEL, PH.D., *Instructor in German and Comparative Philology*

From the date of the original Charter, in 1701, a course of instruction leading to the degree of Bachelor of Arts has been continuously offered at the College; at first only three years of undergraduate study were required, but before 1710, a four years' course was provided, which has been since maintained.

Until 1813, when a Medical School was organized, no other course of study for a degree was marked out at Yale College; but with the incorporation of the Medical Institution (as it was originally styled) the older Department began to be designated the Academical Institution (or Department), and has continued to be so designated until at length, with the growth of other Schools about it and the expansion of the whole into Yale University, the original title of Yale College has again come to be applied distinctively to this Department.

TERMS OF ADMISSION

ALL CANDIDATES FOR ADMISSION to the Freshman Class are examined in the following books and subjects; certificates of standing elsewhere are not accepted in place of this examination:—

1. Latin Grammar.
2. Cicero—Orations against Catiline and for Archias; and, in addition, either the Milo, or the Manilian Law, or the Cato Major, or the Marcellus and the 14th Philippic.
3. Vergil—the first six books of the Aeneid (including Prosody); and, in addition, either the Bucolics or the eighth and ninth books of the Aeneid.
4. Ovid—Metamorphoses, translation at sight.
5. The translation, at sight, of passages from Nepos and Caesar.

6. The translation into Latin of connected passages of English prose. [As special importance is given to this part of the examination, it is suggested to teachers that they connect exercises in making Latin, both oral and written, with all the Latin studies of the preparatory course.]

7. Roman History, to the death of Augustus.

8. Greek Grammar.

9. Xenophon—Anabasis, four books.

10. Homer—Iliad, three books, with Prosody.

11. The translation, at sight, into simple and idiomatic English, of a passage from some work of Xenophon.

12. The translation into Greek of connected passages of English prose, employing the vocabulary and idioms of the first four books of Xenophon's Anabasis.

13. Greek History.

14. Algebra (*a*)—Factoring, fractions, equations of the first degree with one or more unknown quantities, putting problems into equations, inequalities, powers and roots, fractional and negative exponents, reduction of radicals.

15. Algebra (*b*)—Quadratic equations, ratio and proportion, progressions, continued fractions, permutations and combinations, binomial theorem, method of indeterminate coefficients.

16. Plane Geometry (*a*)—Demonstrations and constructions.

17. Plane Geometry (*b*)—Solution of numerical problems involving the metric system and the use of Logarithms.—Five-figure tables will be used.

[Logarithms will not be required of those who enter College in 1894.]

18. French or German—so far as to translate at sight easy prose into English, and also to translate easy English exercises into French or German, the candidate being at liberty to decide for himself in which of the two languages he shall be examined.

19. English—Coleridge: The Ancient Mariner; Scott: Ivanhoe; The Lady of the Lake; Irving: The Alhambra; Macaulay: Essay on Clive; Byron: the Fourth Canto of Childe Harold; Macaulay: Essay on Byron; Hawthorne: House of the Seven Gables; Thackeray: English Humorists of the Eighteenth Century; Tennyson: The Princess.

The examination in English literature will, in 1894, 1895, and 1896, be held upon the selections contained in the preceding list. The complete list may be offered as either a preliminary or a final subject. Candidates who prefer to do so may offer the whole of the list recommended by the Commission of Colleges in New England, it being understood that the aim and mode of examination will be as indicated below.

The questions will be constructed with the special view of testing the candidate's familiarity with the subject-matter. Where the literary form of the papers is incorrect, however, a special condition may be imposed.

Candidates are allowed to divide the examination, with an interval of not less than a year between the two parts. In such cases, they must present themselves at one of the two regular examinations, that is, either in June or in September, of the first year; and at this preliminary examination each candidate must submit a definite statement from his principal instructor of the subjects which he is authorized to offer. No certificate of partial admission will be furnished, unless at least six of the above nineteen subjects have been satisfactorily passed.

THE REGULAR EXAMINATION FOR ADMISSION to College is held at Alumni Hall, New Haven, on Thursday, Friday, and Saturday after Commencement (June 28, 29, 30, 1894); *attendance is required at the opening of the examination, at 9 A. M. on Thursday*, and the sessions will close at noon on Saturday. The examination is wholly in writing; a set of papers recently given will be sent on application to the Registrar, Mr. A. K. Merritt.

In 1894 examinations (beginning on Thursday, June 28, at 9 A. M., and closing Saturday noon) for admission to the Freshman Class (but not to higher classes) will also be held in Albany, N. Y., Andover, Mass., Buffalo, N. Y., Chicago, Ill., Cincinnati, O., Cleveland, O., Concord, N. H., Dayton, O., Denver, Col., Dobbs Ferry, N. Y., Easthampton, Mass., Exeter, N. H., Groton, Mass., Lakeville, Conn., Lawrenceville, N. J., Milwaukee, Wisc., New York City, Norwich, Conn., Philadelphia, Pa., Pittsburg, Pa., Portland, Oregon, Pottstown, Pa., St. Louis, Mo., St. Paul, Minn., San Francisco, Cal., Saxton's River, Vt., Southboro, Mass., Tacoma, Wash., and Washington, D. C., at places to be announced in the local newspapers of the day previous. Candidates who propose to be present elsewhere than at New Haven are requested to send their names to the Registrar before June 15. A fee of five dollars

(payable at the opening of the sessions) is charged for admission to examinations outside of New Haven. The College is also prepared to hold an examination, at the above-named time, in any city or at any school where the number of candidates and the distance from other places of examination may warrant it; applications for this purpose must be sent to the Registrar before May 15.

A second examination is held, *in New Haven only*, at the beginning of the College year, on Monday, Tuesday, and Wednesday (September 24, 25, 26, 1894); candidates for this examination must be present at Alumni Hall at 1.40 p. m. on Monday.

Persons applying for admission to any class in College during the course of the College year (from September to June) must first obtain from the Faculty permission to be examined, and pay to the Treasurer a fee of ten dollars.

In general, examinations for admission to the next Freshman Class can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

ADVANCED STANDING—All candidates for advanced standing, *whether from other Colleges or not*, are examined, in addition to the preparatory studies, in those studies which have been already pursued (see pp. 41 ff.) by the class which they wish to enter. In the several languages, for the particular books studied by the class, equivalent amounts from other books may be offered. Certificates of standing elsewhere cannot be accepted in place of these examinations, although they may be taken into account as collateral evidence of fitness for admission.

Bachelors of Arts or of Philosophy of any institution may join the Senior Class (without examination and without becoming candidates for the Bachelor's degree), as candidates for the degree of Doctor of Philosophy after three years' study.

No one can be admitted to the Senior Class after the beginning of the second term.

AGE—No one can be admitted to the Freshman Class till he has completed his fifteenth year, nor to an advanced standing without a corresponding increase of age.

TESTIMONIALS—Satisfactory testimonials of good moral character (preferably from the last principal instructor) are in all cases required, before a certificate of admission in full is granted. Students from other Colleges must present certificates of dismission in good standing.

BOND—Every person must give to the Treasurer, on being admitted, a bond, executed by his parent or guardian, for five hundred dollars, as security for the payment of charges arising under the laws of the College. A blank form for this purpose is furnished at the time of admission.

GOVERNMENT AND INSTRUCTION

The Dean has the general supervision under the Faculty of the Senior and Junior classes; the members of the two lower classes are assigned by divisions for a similar supervision to the care of the instructors in those classes. Absence from College exercises is excused only for extremely urgent reasons. In general, a student cannot be excused for absence at the beginning or near the end of a term.

In order to cover all cases of absence which may seem justifiable to the student, but for which no excuses will be accepted, an allowance is granted to a member of the Senior or Junior class of absence from eight class-room exercises (recitations, lectures, or rhetorical appointments), and to a member of the Sophomore or Freshman class from six class-room exercises, during the first term and during each half of the second term, without incurring marks and without affecting his record for scholarship; provided that these absences shall not immediately precede

or follow a vacation or recess ; provided, also, that no two absences shall be consecutive in any one study, and that such absences shall not excuse the student from preparation upon the omitted lessons when reviewed.

The members of each of the three lower classes are arranged at the beginning of each term in divisions according to scholarship. During the present year, for required work the Junior class is divided into six divisions, the Sophomore into eight divisions, and the Freshman class into ten ; in the elective courses, the divisions are of convenient size for class-room work.

Greek, Latin, and Mathematics occupy twelve and nine hours of class-room work per week during the Freshman and Sophomore years respectively ; three hours of class-room work per week during the Freshman and Sophomore years are given to Modern Languages ; three hours per week through the Sophomore year and one hour in the Freshman year are given to English, and three hours per week during the Sophomore year are given to Physics.

If a student can pass a satisfactory examination in any of the prescribed studies for the work of *one year in advance*, he may be allowed to choose from the list of Electives some other course which he is qualified to pursue with advantage, covering the same number of hours.

In the Freshman and Sophomore years the work is *prescribed*. The kind and amount of study in these two years are believed to be such as are essential for laying the foundation of a liberal education, whatever the department or profession that may be pursued in after-life ; and no more than is needed to give the student a proper basis of knowledge and discipline for the study of the *elective* courses which follow, and that knowledge of himself, and of the subjects before him, which is needed for a judicious choice.

Of the work of the Junior and of the Senior years over four-fifths is in elective studies. The whole number of elective courses open to the two classes is at the present

time one hundred and forty-nine; and in addition there are several courses of lectures, attendance on which is optional. The Juniors have open to them elective studies in the English Language and Literature, the Fine Arts, History, Political Science, the Natural Sciences, and Music, in addition to those in the departments of the Classics, the Modern Languages, and Mathematics; and the Seniors, electives under all these departments, along with others of higher range as explained below.

Many of the courses fall naturally into groups: as that of the Ancient Languages and Linguistics; Psychology, Logic, and Philosophy, with Ethics; Political Science and Law; History; Modern Languages and Literature; Mathematics and Physics; Chemistry and the Natural Sciences; and the student is recommended to select his courses as far as possible according to his needs, in part perhaps according to his expectations as to future work, fixing first upon the chief subject, and selecting others that are subsidiary to it. In several cases, related courses are accessible to the student only as they are taken consecutively.

To promote the rational choice of elective courses, SPECIAL HONORS in various groups of studies are offered, to be given at the end of the Senior year, in accordance with the scheme on page 81.

THE PROGRAM OF STUDIES for the current year is as follows:

FRESHMAN YEAR

Greek—Homer's Iliad, books xviii, xxii, xxiii, xxiv; Philippians of Demosthenes; Apology of Plato.

Latin—Livy, books xxi and xxii; Cicero de Amicitia and de Senectute; Satires of Horace; Prose Composition; History of the Roman Republic.

French or German—Three hours a week throughout the year. Students may at their option either continue the study of the modern language presented for admission to college, or begin the study of German in

case they have not previously pursued it. Those who have sufficient knowledge of either language will be assigned to classes still further advanced.

Mathematics—In *Geometry*: Planes, Polyhedrons, Cones, Cylinders, and Spheres. Projection of figures with exercises on Models. Text-book, Chauvenet's *Geometry*.

Plane Trigonometry: Solutions of Triangles, Mensuration, and Surveying. Text-book, Richards's *Trigonometry*.

Mechanics—The elementary principles of Kinematics, Kinetics (or Dynamics), and Statics, in reference to solid bodies, with practical applications. Text-book, Dana's *Mechanics*.

English Literature—Three hours a week through twelve weeks. Brooke's *Primer*; three plays of Shakespeare; Milton's *Minor Poems*.

SOPHOMORE YEAR:

Each member of the Sophomore class is required to choose five of the six following subjects:

- I. *Greek*—Seven against Thebes of Aeschylus, Antigone of Sophocles, Iphigenia among the Taurians of Euripides, Frogs of Aristophanes, with lectures on the Greek drama and scenic antiquities; Apology of Plato.
- II. *Latin*—Odes and Epodes of Horace; Agricola and Germania of Tacitus; Trinummus and Captivi of Plautus; Sight-reading.
- III. *Modern Languages*—Advanced French, or advanced German, at the option of the student, three hours a week throughout the year. Those who so desire may begin the study of German, in case they have never pursued it.
- IV. *Mathematics—Trigonometry*: Spherical Trigonometry; Applications to Navigation and Astronomy. Text-book, Richards's *Trigonometry*.
Algebra: The Geometrical interpretation of the Theory of Equations, Imaginaries, and the Solution of Higher Equations. Text-book, Phillips & Beebe's *Graphic Algebra*.
Analytical Geometry: Plane and Solid, with Applications to Map-Projection. Text-book, Wentworth's *Analytical Geometry*.
- V. *English Literature*—Selections from Shakespeare, Spenser, Bacon, Milton, Addison, Swift, Pope, Johnson, Goldsmith, Gray. Required preparation of special papers.
- VI. *Physics*—Liquids and Gases, Sound, Light, Heat, and Electricity.

JUNIOR AND SENIOR YEARS:

The *prescribed* studies of Junior year occupy three hours per week, and those of Senior year two hours per week. In addition, each member of the Junior class is required to select twelve, and each member of the Senior class thirteen hours per week, from the list of *elective* courses.

PRESCRIBED STUDIES OF JUNIOR YEAR:

Logic—Jevons's Lessons in Logic; Fowler's Inductive Logic; exercises in the criticism of arguments; lectures.

Psychology—Porter's Human Intellect: lectures.

Ethics—Porter's Elements of Moral Science.

PRESCRIBED STUDIES OF SENIOR YEAR:

Philosophy—One course in this department of study, two hours per week throughout the year, is prescribed. The particular course taken is left, however, to the choice of the pupil from a list of four or more courses. Under the term Philosophy, as here used, is included the study of psychology, ethics, and the history of philosophy.

RHETORIC AND ELOCUTION:

Rhetoric—English Composition, Sophomore year. See further explanations on page 76. For premiums in this department see pp. 96, 97.

Elocution—Sophomore Year: Lectures on the Science and Art of Elocution,—logical analysis,—vocal analysis, expression, and culture,—oratorical action. Practice in speaking and recitation by sub-divisions. Individual instruction and private drill in preparation for speaking before the Professor of Rhetoric for the "Prizes for Declamation."

Junior Year: Three weeks of preparatory training for the speakers at the Junior Exhibition.

Senior Year: Three weeks of preparatory training for the speakers at Commencement.

ELECTIVE COURSES

Juniors and Seniors have fifteen hours of class-room work, to be chosen from this list with the following limitations:—

Seniors are required to choose one of the four courses 1, 2, 3, 4; Juniors are required to take course 13. Courses

marked for "both terms" cannot, if chosen, be abandoned during the year.

I. PSYCHOLOGY ; ETHICS ; PHILOSOPHY

Professor LADD :—

1 *Introduction to Philosophy.* [Seniors.] 2 hrs. both terms.

This course is designed to present, in an elementary and summary way, the principal philosophical problems. It may properly be taken by all who desire any acquaintance with philosophy as a means of general culture. One hour each week throughout the year will consist of a lecture ; the other of oral and written work by the class, recitation, discussion, questions, papers, etc. The exercises will be based upon some book giving a general treatment of the subject, supplemented by study of several of Lotze's *Philosophical Outlines*.

During the latter half of the course special emphasis will be laid upon the philosophy of life and of conduct, in connection with the discussion of problems in Ethics, Aesthetics, and the Philosophy of Religion.

2 *Psychology.* [Seniors.] 2 hrs. both terms.

A more detailed study of mental life, designed to supplement the course in psychology, in Junior year. James' *Principles of Psychology* will be read, and the reading accompanied by papers, discussion, and lectures.

Assistant Professor DUNCAN :—

3 *History of Philosophy.* [Seniors.] 2 hrs. both terms.

An elementary study of the development of speculative thought from Descartes to the present time, with cursory reading of philosophical masterpieces from Descartes to Kant : Descartes' *Method* and *Principles of Philosophy*, pt. I ; Bacon's *Novum Organum* ; Spinoza's *Ethics*—selections ; Locke's *Essay on Human Understanding*—selections ; Leibnitz's *Monadology* and *Philosophical Opuscles* ; Berkeley's *Principles of Human Knowledge* ; Hume's *Inquiry concerning Human Understanding* ; Reid's *Inquiry into the Human Mind* ; Kant's *Prolegomena to Any Future Metaphysic*. This course, while intended primarily for general culture, also aims to be an introduction to the more special study of philosophy and the philosophical problems underlying social ethics, jurisprudence, and the philosophy of religion.

Assistant Professor SNEATH :—

4 *History of Ethics.* [Seniors.] 2 hrs. both terms.

A careful historical and critical examination of the various types of ethical theory, including rational, hedonistic, eudemonistic, aesthetic, and evolutionary ethics. The course will close with an inquiry into the relation of Ethics to Theism. Kant's *Theory of Ethics*, Mill's *Utilitarianism*, Spencer's *Data of Ethics*, Bourne's *Principles of Ethics*, lectures, and discussions. A thesis on a representative system of Ethics is required of each student.

Dr. SCRIPTURE :—

5 *Physiological Psychology.* 2 hrs. both terms.

The course begins with a study of the human nervous system and of the principal relations between the changes in this mechanism and the phenomena of consciousness. This is followed by an elementary presentation of the chief results of experimental psychology. The course is illustrated by charts, models, histological preparations, and experiments. Text-book : Ladd's *Outlines of Physiological Psychology*.

Juniors taking this course will be admitted to courses 11 and 12 in the Senior year.*

The following courses 6, 7, 8, 9, 10, 11, 12, designed mainly for graduate students, are open to Seniors who wish to make a special study of psychology and philosophy, on application to the instructor. Courses 11, 12, are open only to those who have taken course 5.

Professor LADD :—

6 *Kant Seminary.* [Seniors.] 2 hrs. both terms.

This class meets one evening each week for the study of Kant. The *Prolegomena*, with constant reference to the *Kritik of Pure Reason*, in both editions, is rapidly read as introductory. This is followed by a more detailed study of the *Ethical Writings* and the *Kritik of Judgment*. An expository and critical lecture of about forty minutes precedes, in general, the discussion by the teacher and class of each passage. Each member of the class is expected to take part in the questions, discussions, and preparation of papers.

7 *Philosophy of Religion.* [Seniors.] 2 hrs. both terms.

This course is designed to investigate as thoroughly as time will permit the rational grounds of religious faith and life. One hour a week of lectures is given throughout the year. The other weekly exercise is conducted after the seminary method. Martineau's *A Study of Religion*, and Pfeiderer's *Philosophy of Religion* will be read and discussed.

Assistant Professor DUNCAN :—

8 *The Philosophy of Herbert Spencer.*

[Seniors.] 2 hrs. both terms.

This course will be a study of the Evolution Theory of Spencer in its psychological, ethical, and metaphysical aspects. Spencer's *First Principles of Philosophy*, *Principles of Psychology*—selections, and *Data of Ethics* will be read and fully discussed.

9 *Popular Discussions in Philosophy.*

[Seniors.] 1 hr. both terms.

This is a course in *philosophical criticism*, and is intended to develop and train the critical spirit; to deepen interest in the more profound themes of philosophy by showing their connection with popular life and thought; and to vindicate sound psychology and a theistic and Christian philosophy from the perennial misconceptions to which they are exposed. To this end some of the popular philosophical papers of Huxley, Tyndall, Mill, Clifford, Spencer, Fiske, and others are read and freely discussed.

Assistant Professor SNEATH :—

10 *History of Philosophy.* [Seniors.] 2 hrs. both terms.

An historical and critical study of Natural Realism. Special attention is given to the theory of cognition on which the realistic philosophy is founded.

DR. SCRIPTURE :

11 *Experimental Psychology.* [Seniors.] 2 hrs. both terms.

The methods of psychology; general principles of measurement and experiment; psychological measurements; statistics of mental phenomena; construction and care of apparatus; errors and constants of the apparatus; fundamental principles of mechanics, vibratory movements, optics, heat, and electricity, as far as applied in stimulating the sense-organs; measurements

in the domains of sight, hearing, touch, taste, smell, etc.; principles of the graphic method; measurements of the duration of mental phenomena; experiments on the more complicated mental processes; probabilities of errors; experimental investigation of the emotions; principles of laboratory instruction and economy.

This is a full lecture course serving as a foundation for laboratory exercises for those who wish to make a thorough study of psychology and also as a general course for those who wish to become acquainted with the subject without doing laboratory work. [Open only to those who have taken course 5.]

12 *Educational Psychology.* [Seniors.] 2 hrs. both terms.

Application of modern psychological principles to educational subjects; the psychological methods as modified for school use; outlines of the psychology of touch, its use in education; motor abilities, accuracy of movement, fundamental principles of writing and drawing; hearing, training the ear, hearing and singing, fundamental principles of instruction in music; sight, color-teaching; space, form-teaching, drawing, modeling; attention, concentration and distraction, accessories of the school room, laws for developing attention; memory, analysis into its components, experimental study of, calculation of results, development and training, periodicity of, time of study; imagination, use, necessity of development and repression, fables, children's books, toys; emotions, development and repression, requirements for different grades of life; will, action, reflex, automatic, instinctive, voluntary, training; child-study on a scientific basis, principles of anthropometry and psychometry, tests and measurements adapted to rapid work in schools, record-blanks, use of results; psychological development of the child, first expressions of the various abilities, beginnings of instruction; economy in education, greatest results from least efforts, correlation and concentration of instruction; various educational subjects from a psychological standpoint, amusement, play, toys, picture-books, object-lessons, etc.

The course is copiously illustrated with models, charts, books, experiments, educational material both good and bad, etc. [Open only to those who have taken course 5.]

Assistant Professors DUNCAN and SNEATH:—

13 *Elementary Course in Logic, Psychology,
and Ethics.* 3 hrs. both terms.

II. POLITICAL SCIENCE AND LAW

Professor HADLEY :—

- 14
- Economics (General course).*
- 2 hrs. both terms.

A comprehensive course in the problems of industry, commerce, and finance, as short as is consistent with good work. Walker's *Political Economy* is used as a text-book, supplemented by informal lectures and discussions on topics with which this book deals too briefly for the purposes of the class.

This course is intended for those who, without making a specialty of Economics, wish to gain some understanding of the most important industrial and financial problems of the day. It is open to both Juniors and Seniors ; but students are advised to take it in Junior year, as the courses in Social Science and Law can be much better understood after the completion of a course in Economics.

- 15
- Economics (Special course).*
- 3 hrs. both terms.

For those who wish a more detailed knowledge of the Science, and are ready to devote more time to investigation and outside reading than is required in course 14. It is understood that those who take this course have enough interest in the subject to do independent work, beyond what can be tested by recitations or examinations. For two hours out of the three the work of this course coincides with that of course 14 ; the third hour is devoted to the study of more difficult or perplexing points of economic theory and policy, for which the shorter course gives insufficient time.

Professor HADLEY and Assistant Professor SCHWAB :—

- 16
- Economic Policy.*
- [Seniors.] 3 hrs. both terms.

Open only to those who have taken Economics in Junior year. The class is divided into sections small enough for the most effective oral work of recitation and instruction. Each section meets Professor Hadley for about one-third of the year and Professor Schwab the remaining two-thirds. Professor Hadley will deal chiefly with the relations of labor and capital, and the questions arising from the growth of corporations: Sumner's *Economic Problems* will be used as a text-book. Professor Schwab will deal with the principles of Currency, Banking, Taxation, Tariff Legislation, and Public Debts, using as text-books Jevons's *Money*, Dunbar's *Banking*, Taussig's *Tariff History of the United States*, and Adams's *Public Debts*, together with Sumner's *Economic Problems*. Special attention is given to the financial history of the United States.

Assistant Professor SCHWAB :—

17 *Finance (Special course)*. [Seniors.] 1 hr. both terms.

The monetary history of the United States since 1860 is the subject of class-room work for the year, but provision is made for those who prefer to pursue investigations in other departments of Economics. Each member of the class, which is limited to twelve, is expected to investigate an assigned topic thoroughly, and to prepare a series of papers upon it.

Professor SUMNER :—

18 *Social Science*. [Seniors.] 2 hrs. both terms.

A very elementary course in Anthropology and Ethnology, with the origin of civilization and the development of institutions, as an introduction to a scientific study of social problems. Those who are able to read difficult French or German may join special divisions, to read either *Quatrefages, Histoire Générale des Races Humaines*, or Lippert, *Kulturgeschichte* (2 vols. Stuttgart, 1887). For such divisions the course is counted as a three-hour course.

[Courses 19 and 20 are continuous, and anyone taking course 19 in the first term must take course 20 in the second.]

Professor ROBINSON :—

19 *Jurisprudence*. [Seniors.] 2 hrs. 1st term.

The course consists of lectures, readings, and examinations on the following subjects: law in its relations to the origin, development, and government of political society; origin and development of customary law; relation of statute law to customary law; formation and development of codes of law; nature and origin of legal rights; principles of the law governing rights in land; principles of the law governing contract rights; the law of remedies for the violation of rights; origin and procedure of courts of law and equity; criminal law. The instruction in this course is designed to present an historical and philosophical view of the law in its great outlines, as common to all nations, and as particularly developed in the Anglo-Saxon race, and thus to serve as an introduction to the course of Professor Phelps in Municipal, Constitutional, and International Law.

Professor PHELPS :—

- 20 *Law.* [Seniors.] 2 hrs. 2d term.
The common law of this country. Constitutional law. International law. The instruction is by lectures based upon textbooks to be read in connection.
This course is only open to those who have taken course 19.

III. HISTORY

Professor WHEELER :—

- 21 *History of Europe since 1789.* [Seniors.] 2 hrs. both terms.
Mainly political ; introductory to European politics of our day.

Professor C. H. SMITH :—

- 22 *American History (Colonial).* 2 hrs. both terms.
Exploration and early settlement of North America, and colonial history to the close of the revolutionary war.
- [23 *American History (Political).* 2 hrs. both terms.
Political History of the United States to the inauguration of President Hayes.
Omitted in 1893-94.]
- 24 *American History (Constitutional).* 2 hrs. both terms.
An historical study of the federal and state constitutions to the present time.

Professor ADAMS :—

- 25 *Medieval History.* 2 hrs. both terms.
The object of the course is to furnish an outline of the general history of Europe, and to follow the development of political, intellectual, and religious civilization through the period which lies between ancient and modern history.
- 26 *English History to 1485.* [Seniors.] 2 hrs. both terms.
Political and constitutional. Particular attention is given to the origin and development of the system of self-government. The course is of especial value to those who intend to study law

- 27 *The Renaissance Age.* [Seniors.] 1 hr. both terms.

A limited number of Seniors who are candidates for honors in History are admitted to the instructor's graduate course in the Renaissance Age. The work consists in the individual study of assigned topics upon which reports are made to the class. The topics are so arranged that with the lectures given they constitute a continuous history of the period.

The consent of the instructor must be obtained by each one who desires to elect this course. This will be granted only to candidates for honors in History, and if more than a limited number apply, only to those best qualified for the work to be done.

Mr. WILLIAMS :—

2 hrs. both terms.

- 29 *Europe from the Reformation to the French Revolution of 1789.*

- 30 *England since 1485.* [Seniors.] 2 hrs. both terms.
Political and constitutional.

IV. MODERN LANGUAGES AND LITERATURE

Professor LUQUIENS :—

- 31 *Early French Literature.* 1 hr. both terms.

Open to graduate students and to Seniors who have during their Junior year taken one of the electives in Romance languages. Bartsch's *Chrestomathie* is used as the text-book, but special attention is given to the following works: *Chanson de Roland*, *Roman de Rou*, *Roman de la Rose*, *Romans de la Table Ronde*, *Joinville*. Students taking this course must also take course 32.

- 31a *Montaigne and his Essays.* 1 hr. 1st term.
Open to graduate students and to Seniors.

- 32 *Historical Grammar.* 1 hr. 1st term.
A brief survey of the successive transformations through which modern French was evolved from Latin.

- 33 *Entretiens sur la Littérature Française.* 2 hrs. both terms.
Open to students who have shown decided proficiency in French during their Sophomore year. The lectures are given in French, and the required work, written and oral, is in that language also. Topic for the first term: Lafontaine, Racine, and Molière; for the second term: the great writers of the sixteenth century.
- 34 *Systematic Readings through Modern French Literature.* 2 hrs. both terms.
Corneille, Racine, Molière, Lafontaine, Madame de Sévigné, Saint-Simon, for the sixteenth century; Chateaubriand, Madame de Staël, V. Hugo, Balzac, George Sand, Thiers, Michelet, Taine, for the sixteenth century. Written analysis and short critical papers are required.
- 35 *French Literature of the XVIIIth Century.* 2 hrs. 2d term.
Lectures and reading from the texts. Individual work is required. Montesquieu, Voltaire, J. J. Rousseau, and Beaumarchais.
- 36 *French Prose and Grammar.* 3 hrs. both terms.
Open to Seniors and Juniors who have not studied French before, on condition that at the opening of the College year they pass a satisfactory examination on the following subjects: the French Article, Numbers, Pronouns, and Conjugations. Whitney's French Grammar is recommended for this preparation.

Assistant Professor LANG :

- 37 *Spanish, Elementary Course.* 3 hrs. both terms.
Sophomore French is a requisite for admission to this course. Its aim is to make the student acquire a good pronunciation, and to give him such practice in conversation and composition as shall make it possible to dispense more and more with the use of English in the succeeding courses.
- 38 *Spanish Drama and Fiction of the Seventeenth Century.* 1 hr. both terms.
This course is only open to those who have passed through course 37, or who have otherwise satisfied the Instructor in regard to their fitness to take it. Spanish, as much as possible, is made the means of instruction, and exercises in composition are written throughout the year. Cervantes' *D. Quijote* (ed. Garnier Hermanos, Paris 1875), and *Las Mocedades del Cid*, de D. Guillen de Castro, edited by E. Mérimée, are read.

39 *Italian Elementary Course.* 3 hrs. both terms.

Sophomore French is required for admission to this course. Its aim is to give the student a correct pronunciation of Italian and such a command of grammar and vocabulary as shall lead to a gradual substitution of Italian for English as a means of instruction.

Grandgent's *Italian Grammar and Composition*; Baragiola's *Crestomazia Italiana Ortofonica*.

40 *Dante's Divina Commedia.* 1 hr. both terms.

This course is a literary one, and only open to those who have taken course 39 or who have otherwise satisfied the Instructor as to their fitness to take it. Italian is, as much as possible, made the means of instruction, and weekly exercises in composition assist the student in acquiring a practical use of the language. Fraticelli's edition of *Dante's Divina Commedia*, and other texts.

Professor PALMER :—

[Courses 43, 44, 45, and 46 are primarily graduate courses, and are not to be chosen without the previous advice and consent of the instructor.]

41 *Schiller, Works and Life.* 2 hrs. both terms.

Rapid reading of plays, poems, and prose writings of Schiller, with study of his life and of his influence on German literature.

42 *Goethe, Works and Life.* 3 hrs. both terms.

After an outline study of Goethe's life and development in connection with his lyric poems, his early prose writings, and his principal dramas, particular attention is given to Faust i and ii, the later prose works, and Goethe's important utterances in letters, journals, and conversations.

43 *History of German Literature since 1740.*

2 hrs. both terms.

Beginning with the time of Klopstock, the development of the literature will be followed as near to the present as is feasible, with special attention to the Classical Period and the Romantic School, characteristic authors and works, and a summary view of the literature since 1832.

- 44 *Gothic.* 2 hrs. 1st term.
An introductory course especially for those intending to study historically German or English. In connection with it there are given in systematic outline the phonological relations of Gothic to both earlier Indo-Germanic and later Germanic languages. Braune's *Gotische Grammatik*, or Wright's *A Gothic Language Primer*, and Heyne's *Ulfilas*.
- 45 *Old High German and Old Saxon.* 2 hrs. 2d term.
An introductory course, especially for those intending to study historically German or English. Braune's *Althochdeutsche Grammatik* and *Althochdeutsche Lesebuch*; Gallée's *Altsächsische Grammatik*, Behaghel's *Heliand*, and Heyne's *Kleinere altniederdeutsche Denkmäler*.
- 46 *Introduction to Germanic Philology.* 1 hr. both terms.
Portions of Paul's *Grundriss der germanischen Philologie* are read, with discussion and informal lectures.

Assistant Professor GRUENER and Dr. GOODRICH :—

[Professor Gruener is absent for the year.]

[Course 49, Middle High German, primarily a graduate course, is open to undergraduates upon previous application to the instructor.]

- 47 *Elementary German (Freshman).* 3 hrs. both terms.
- 48 *German Prose.* 2 hrs. both terms.
A course in rapid reading. Selections from biography, history, and critical essays taken from Ruge's *Christoph Columbus*, Freytag's *Aus dem Jahrhundert der Reformation*, and Virchow's *Sammlung gemeinverständlicher wissenschaftlicher Vorträge*.
- 49 *Middle High German.* 2 hrs. both terms.
Hartmann; Nibelungenlied; selected poems of Walther von der Vogelweide. Lectures and papers.

DR. OERTEL :—

- 50 *German Composition and Conversation.* 3 hrs. both terms.
For practice in speaking and writing. This course, conducted in German, is especially intended for those who look forward to teaching German, and open to those only who have done superior work in German. Translation into German of narrative

prose and of selections from history and literature ; during the second term also original essays ; special topics are assigned for discussion in German.

Mr. ADAMS :—

- 51 *Second-year German.* 3 hrs. both terms.

Dr. DAHL :—

- 52 *Norwegian and Danish (Beginners' course).* 2 hrs. both terms.

The elements of the language learned inductively by reading selections from the writings of modern authors. The course is intended to be helpful to those who study English Philology, or those who wish to obtain a general knowledge of the Teutonic languages.

- 53 *Swedish (Beginners' course).* 2 hrs. both terms.

A study of easy selections in prose and poetry, to acquire a reading knowledge of the language and a mastery of the elementary principles of the grammar.

Professor BEERS :—

- 54 *English Poetic Masterpieces.* [Juniors.] 2 hrs. both terms.

Critical readings in the class-room in the text of the Canterbury Tales, the Faery Queene, the principal plays of Shakespeare, and the Poetry of Milton.

- 55 *Georgian Literature of the 19th Century.* [Seniors.] 2 hrs. both terms.

This course consists of critical readings in the class-room in the text of the principal English poets from Wordsworth to Keats, with outside assigned reading in the prose authors of the period.

- 56 *Literature of the Early Stuart and Commonwealth Period.* [Seniors.] 2 hrs. both terms.

The literary history of the half century from 1603 to 1660, with special reference to the decadence of the drama, the development of prose, the "metaphysical poets," and the writings of Milton.

Students electing this course must expect to buy a rather large number of books.

Professor COOK :—

57 *History of English Literature.*

[Juniors.] 2 hrs. both terms.

An outline of the subject, on the basis of Brooke's *Primer*, Taine, Morley's *First Sketch*, and tenBrink's *Early English Literature*, with some reading of English authors at first hand. Frequent preparation of brief papers on assigned topics.

58 *Old and Middle English.*

2 hrs. both terms.

An elementary course in the beginnings and earlier development of the English language and literature. The first term is devoted to Cook's *First Book in Old English*. In the second term this is followed by more difficult Old English texts, and by the reading of selections from Chaucer and other Middle English writers for linguistic purposes.

59 *Tennyson.*

2 hrs. 1st. term.

Critical study of selected poems. Tennyson's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.

60 *Shakespeare.*

2 hrs. 2d term.

Critical study of a few selected plays. The Leopold edition of Shakespeare; Moulton's *Shakespeare as a Dramatic Artist*; Schmidt's *Shakespeare-Lexicon*; annotated additions of single plays, etc. Frequent preparation of brief papers on assigned topics.

61 *English Essayists.**

2 hrs. 2d term.

Study of the opinions and style of selected prose authors, ranging from the Elizabethan era to the present. Frequent preparation of brief papers on assigned topics.

62 *Bacon.**

2 hrs. 1st term.

Bacon's Essays and Advancement of Learning. Study through paraphrase and amplification. Bacon's character, opinions, and style. His place in Elizabethan literature. Frequent preparation of brief papers on assigned topics.

63 *English Political Orators.**

2 hrs. 1st term.

Study of English Parliamentary orators of the eighteenth and nineteenth centuries, particularly of Burke. Comparison of English with American political orators.

* Not given in 1893-94.

- 64 *Browning*.* 2 hrs. 2d term.
Critical study of selected poems. Browning's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.
- 65 *American Literature*.* 2 hrs. 2d term.
Study of selected authors, such as Emerson, Hawthorne, and Lowell, with outside reading in authors or works not undertaken in class.

V. ANCIENT LANGUAGES AND LINGUISTICS

Professor WHITNEY :—

- 68 *Sanskrit*. 3 hrs. both terms.
Instruction in Sanskrit, beginning with the instructor's *Sanskrit Grammar*, and passing on to Lanman's *Reader*, etc., and to various branches of the literature, whether Vedic or classical, as may suit the advancement and the tastes of the student.

Professor SEYMOUR :—

- 69 *Aeschylus*. 2 hrs. 1st term.
The *Persians* and *Seven against Thebes*, with special attention to the historical element in the *Persians*, as well as to metres, scenic antiquities, and the dramatic structure of the two plays.
- 70 *Plato*. 2 hrs. 1st term.
The *Gorgias*. To be read chiefly with reference to the characteristics of Plato's literary style and the form of the dialogue, but without neglecting entirely the Platonic philosophy.
- 71 *Plato*. 2 hrs. 2d term.
The *Republic*.
- 72 *Pindar*. 2 hrs. 2d term.
The principal extant odes of Pindar, with a sketch of Greek Lyric Poetry.
- 73 *Greek Testament*. 1 hr. 2d term.
A philological study of St. Paul's Epistles to the Corinthians and the peculiarities of the Hellenistic diction.

* Not given in 1893-94.

Mr. KITCHEL :—

- 74 *The Choephoroi of Aeschylus, the Electra of Sophocles, and the Electra of Euripides.* 2 hrs. 2d term.

These plays will be read and carefully compared with the intent of noting the development of the drama thus exhibited, both in chorus and in plot. The points of similarity and dissimilarity between the ancient and the modern drama will be sought for.

Assistant Professor CLAPP :—

- 75 *Aristophanes.* 2 hrs. 1st term.

The *Clouds* and *Knights*. The plays will be studied chiefly from the literary point of view, but questions of metre and scenic antiquities will be discussed so far as may help to the fuller appreciation of what is read.

- 76 *Aristophanes.* 2 hrs. 2d term.

The *Birds*, *Frogs*, and *Wasps* (see statement under the previous course).

- 77 *Lucian.* 1 hr. 1st term.

An introduction to the study of Lucian as a man of letters and reviver of Attic prose. The work will consist chiefly of rapid translation, with informal discussion of the history of the Greek language during the Alexandrian and Roman periods. Attention is drawn to some points of resemblance between Lucian and certain modern satirical writers.

Professor GOODELL :—

- 78 *Introduction to Greek Archaeology.* 1 hr. both terms.

An outline study of Greek pottery, architecture, and sculpture, with some attention to gems, metal work, coins, figurines, and painting, as illustrated by existing examples. The subject is taken up by periods, to show the historical development of Greek artistic production and its relation to other phases of Greek life and to modern art. Photographs, the large collection of archaeological works belonging to the Library, the University coin collection, and the casts of the Art School, are freely used in lectures and are made available for private study.

This course is continuous with one, to be given in alternate years, on the daily life of the Athenians as illustrated by the literature and the monuments; but either course may be taken independently.

[Undergraduates may also be admitted, by special arrangement with the instructor, to the graduate courses (two hours weekly) on the Athenian Commonwealth (1st half-year), and on the Political Speeches of Demosthenes (2d half-year).]

Professor REYNOLDS :—

79 *Homer.* 2 hrs. 1st term.

The later books of the *Odyssey* are read, with special reference to the literary quality of the poem, and to the acquisition of facility in reading.

80 *The Greek Historians.* 2 hrs. 2d term.

The subject will be Athens during the Age of Pericles. The course includes a discussion of the methods of the principal Greek historians and of the other sources of Greek history of this period, the history of parties and public men, social questions, and especially the life and thought of Athens (education, morals, religion, etc.). The course involves the reading of considerable Greek, especially prose, and the investigation of assigned topics. Fluency in reading Greek at sight and the ability to use French and German books of reference are useful but not essential.

Mr. BROWNSON :—

81 *The Greek Theater.* 1 hr. both terms.

Dealing with the plan and structure of the theater, with special reference to the stage question, and with scenic antiquities in general. The subject will be studied from both the archaeological and literary point of view. The results of recent excavations will be discussed in lectures, and illustrative extracts will be read from tragedy and comedy.

Dr. OERTEL :—

82 *Comparative Philology.* 1 hr. both terms.

The general principles of linguistic science ; a short sketch of its history and development ; exposition and discussion of the modern methods of linguistic science.

83 *Comparative Phonology and Morphology of
Greek and Latin.* 3 hrs. both terms.

This course is intended for classical students who wish to become acquainted with the methods and chief results of the mod

ern comparative treatment of Greek and Latin sounds and inflection. Especial attention is given to both Greek and Italic dialects.

84 *Investigation Course.* 1 hr. both terms.

For the presentation and discussion of the results of individual investigation ; also for reports and informal discussion of recent publications.

Courses 82, 83, and 84, are primarily intended for graduate students, but Seniors may be admitted by special arrangement with the instructor.

Professor PECK :—

85 *Latin Philology.* 1 hr. 1st term.

In this course such features of the language are studied as its historical development and decay, relations to other languages, forms and syntax, pronunciation, adaptation to literature, etc.

86 *Latin Composition.* 2 hrs. 1st term.

Oral and written exercises, based largely upon the Latinity of Terence.

[Courses 85 and 86 can be taken by such undergraduates only as have done superior work in Latin.]

87 *Tacitus (Annals, 1-6) and Suetonius (Tiberius).*

3 hrs. 1st term.

88 *Persius and Juvenal.*

2 hrs. 1st term.

Professor H. P. WRIGHT :—

89 *Lyric Poetry.* 2 hrs. 2d term.

Books iii and iv of the Odes of Horace, the shorter poems of Catullus, Latin Hymns.

Professor MORRIS :—

90 *The Conspiracy of Catiline.* 2 hrs. 2d term.

Each session occupies two hours and little outside work is required.

A study of the conspiracy of Catiline from the sources, involving the reading of Cicero *in Catilinam* i-iv, *pro Murena*, Sallust *Catilina*, the commentary of Asconius, and some chapters of Dio Cassius. The course is intended especially for students who expect to teach Latin.

- 91 *Plautus*. 2 hrs. 2d term.
A special course for the study of questions of text, metres, language, etc.

Mr. ROBERTS :—

- 92 *Terence*. 2 hrs. 1st term.
93 *Cicero*. 2 hrs. 2d term.
Cicero's Second Philippic and other orations.

Mr. THOMPSON :—

- 94 *Livy, Books XXI and XXII*. 2 hrs. 1st term.
Rapid reading, with study of the Second Punic War.

[See, also, Courses 95-100, and 102.]

VI. BIBLICAL LITERATURE

Assistant Professor SANDERS :—

- 95 *Beginning Hebrew (first course)*. 4 hrs. 1st term.
The detailed study of Genesis i-iv, and with these chapters the introduction to the etymology, syntax, and idiom of the language.
- 96 *Beginning Hebrew (second course)*. 4 hrs. 2d term.
The detailed study of Genesis v-viii and of extracts from other historical material, laying stress at times upon the etymology, syntax, and simple accentuation, at other times upon rapid but accurate translation. This work is supplemented by regular sight-reading and by lectures.
Courses 95 and 96 must be elected together. They prepare a student to read ordinary Hebrew with ease. They may be chosen by those who merely desire a taste of Semitic literature, but are especially valuable for those who intend to enter a Theological Seminary, enabling them to take in the Seminary advanced courses in Hebrew.
- 97 *Early Hebrew Poetry*. 2 hrs. 1st term.
A study of the short poems scattered through the historical books of the Old Testament, especial attention being paid to poetical form, metre, historical interpretation, and the principles of textual criticism.

98 *Hebrew Law, History, and Prophecy.* 2 hrs. 2d term.

Selections from Deuteronomy, Samuel, Kings, and the Minor Prophets, with a discussion of the material from an historical and comparative as well as textual standpoint.

Courses 97 and 98 should be elected together. They are open only to those who have taken courses 95 and 96. They are intended as a broad and thorough foundation for the advanced work of a Seminary or University.

99 *Arabic.* 2 hrs. both terms.

The Arabic version of Genesis i-iii (Lansing's *Arabic Manual*), and with these chapters the principles of the language; reading of selected Suras of the Qurân; lectures on early Arabian civilization, Arabic literature, the structure and contents of the Qurân, and the history of Islam. Sight-reading in the *Thousand and One Nights*.

100 *Assyrian.* 2 hrs. both terms.

This course covers, (a) the principles of the language, (b) the mastery of the most common cuneiform signs, (c) reading of cuneiform and of transliterated texts, (d) lectures on Assyrian history and literature, with especial reference to their bearing on Biblical literature.

President DWIGHT :—

101 *The Four Gospels (English).* 1 hr. both terms.

A study of the Gospels with reference to the teachings of Jesus.

102 *The Epistle to the Galatians.* 1 hr. both terms.

A study of the epistle in the original Greek with reference to the thought of the author.

Professor CURTIS :—

103 *The Book of Isaiah (English).* 1 hr. both terms.

A study of the times and the writings of Isaiah. The material, classified chronologically and interpreted by the instructor, will be supplemented by investigations by the class.

Assistant Professor SANDERS :—

104 *Old Testament Literature (English).* 2 hrs. both terms.

A survey of the Old Testament, arranged, as far as possible, in chronological order and historical connection, attention being paid to the history, religion, and characteristics of the ancient

nations which were closely allied to Israel, to the beginnings of Israelitish history, to the origin and growth of Hebrew religion, and to the literature as a reflex of the national development.

The object of this course is the general mastery of the Old Testament material from a historical and literary point of view, and the comprehension of Israel's place in history.

The student's work is outlined in syllabi, furnished by the instructor, and supplemented by lectures. Brief papers on assigned topics will be expected.

This course will probably fail to cover the whole of the Old Testament. The remainder of the Old Testament and the whole of the New Testament will be covered by a similar course to be offered next year.

105 *The History of the English Bible.* 1 hr. both terms.

A study of the development of our English Bible from its earliest beginnings in the Hebrew and Greek. A consideration of such topics as Hebrew writing, the Massorettes, the Old and New Testament canon, the Versions, the various English translations. A series of lectures with discussions, special papers, and reviews.

VII. THE FINE ARTS

Professor WEIR :—

106 *Technical Course in Painting.*

[Seniors.] 2 hrs. both terms.

This course consists of two exercises a week of two hours each, and is open only to those who have taken the course 108 in their Junior year. The course consists principally of studies in Water-color Painting, and includes lectures on the Grammar of Art, on Painting, Sculpture, and Architecture, technically considered, with a critical account of the various Schools and their representative Masters. The lectures are fully illustrated by the use of the hydro-oxygen lantern, and are open to the voluntary attendance of all other members of the Senior class and to Graduate students.

107 *Course in Modeling.* [Seniors.] 2 hrs. both terms.

Two exercises a week of two hours each. This course is open only to those who have taken the course 108 in their Junior year. The course consists in modeling from the antique and from the living figure, and is supplemented by the lectures given in course 106.

Professor NIEMEYER :—

108 *Course in Drawing.* [Juniors.] 2 hrs. both terms.

This course consists of two exercises a week of two hours each, in Drawing from the Antique and the Life, and also in sketching from Nature out of doors. Exercises in original composition are required from time to time. It is the aim of this course to teach the fundamental principles of Art, and to make the student familiar with the use of pen and pencil.

The work in Drawing is supplemented by lectures in Linear Perspective and the analysis of the Muscular Movements of the Human Body as expressed in the external forms.

Professor HOPPIN :—

109 *History of Art.* [Juniors, Seniors, and Graduate Students.] 2d term.

A course of lectures on Greek Art—sculpture, architecture, and painting—with a special reference to Greek thought and literature. The lectures of the current year will be a continuation, not repetition, of last year's course, and will embrace the monumental period of Greek Sculpture, Mosaic, and Vase and Mural Painting. If time permit, there will be an additional course of lectures on Egyptian Art and recent archæological discoveries in Egypt.

The lectures are illustrated throughout by the use of the hydro-oxygen lantern.

VIII. NATURAL AND PHYSICAL SCIENCE

Professor WILLIAMS :—

110 *Geology.* [Juniors.] 2 hrs. both terms.

A general course on the principles of Geology. The exercises consist of recitations, lectures, and occasional written examinations, or the preparation of short essays on assigned subjects.

Dana's *Manual* is used, both as text-book and book of reference. In order to derive the greatest benefit from the course some acquaintance with the elements of Chemistry, Physics, Zoology, and Botany is required. Those who have not previously studied Chemistry are expected to elect course 124 in Chem-

istry in order to enter this course, and as there is at present, no other provision for instruction in Zoology, this will be provided for, briefly, during the course.

Juniors intending in Senior year to elect the course in the Geological History of Organisms [112] should elect either this or course 115.

111 *Geology* (supplementary course).

[Juniors.] 1 hr. both terms.

The observational study of rocks, minerals, fossils, and the geological phenomena exhibited in and about New Haven. The formation of collections, their identification, and the preparation of descriptions and explanations of the phenomena observed are required.

Open only to those taking course 110.

112 *Geological History of Organisms.*

[Seniors.] 2 hrs. both terms.

An introduction to the Geological history and evolution of organisms.

In this course the nature of organisms, their relations to each other and their classification, the nature and interpretation of fossil remains, the relation of organisms to environment and the theories of their modification and natural selection, their relations to geological time, and the theories of heredity and evolution are discussed from the point of view of the geologist.

Collateral reading of Lyell's *Principles of Geology*, Darwin's *Origin of Species*, and more recent works which will be cited on the topics discussed is recommended.

Only those who have already passed in the course in general geology are admitted to this course.

113 *Geology* (advanced course).

[Seniors.] 1 hr. both terms.

The study of special geological problems by reading original memoirs and special treatises, the examination of geological materials in the laboratory or in the field, and the preparation of critical essays and descriptive reports.

Open to those who have passed in course 110.

114 *Paleontology.*

[Seniors.] both terms.

The study of fossils in the laboratory, their interpretation and classification as remains of organisms, the method of using them in determining geological age and in interpreting from them the history of organisms.

Facilities and collections for only a limited number of students are available this year, and the class must be restricted to five members, who must have previously taken the course in general Geology [110].

Professor BREWER :—

115 *Physical Geography*. [Juniors.] 2 hrs. both terms.

This course of lectures includes the elements of dynamical geology and of natural history, so far as is necessary for an understanding of the physical geography of the globe and the distribution of species.

Professor EATON :—

116 *Botany*. [Juniors.] 2 hrs. 2d term.

An elementary course in the botany of flowering plants. Recitations from Gray's *Structural Botany* from January till about May 1st, followed by practical work in examining and identifying the ordinary native plants of the vicinity. The class is limited to twenty students.

117 *Pteridology and Bryology*. [Seniors.] 2 hrs. both terms.

This course begins with practical work in the dissection and examination of vegetable tissues, with especial reference to the structure of ferns and mosses. After some facility has been gained in this kind of work, the time is devoted to the examination of as many mosses as possible, with a view to becoming familiar with the genera and with a large number of species. Those who take this course are expected to devote considerable time to field-work and to making collections for their own use. The course is limited to those who have taken a preliminary course in the study of flowering plants.

Professor A. W. WRIGHT :—

118 *Physics*. [Juniors and Seniors.] 2 hrs. both terms.

Two exercises each week, chiefly practical work in the Sloane Physical Laboratory, with measurements, especially in heat, light, and electricity, each exercise occupying two hours. As introductory to the laboratory practice, the exercises during a portion of the first term consist of recitations or discussions upon the theory and methods of physical measurements, the use of instruments, and other special topics. Laboratory facilities are also freely accorded to students of the course at other times than those of the stated exercises.

The successful prosecution of this course requires practical facility in the application of the Physics and Mathematics of the previous years, the lack of which may be made a reason for exclusion from the course.

119 *Physics.* [Seniors.] 2 hrs. both terms.

A more advanced course of laboratory work in Physics, in continuation of course 118, and open only to those who have already pursued that course.

It includes practical problems in Physical experimentation of more elaborate character, and worked out with greater detail. Those students who make sufficient advances are encouraged to undertake original investigations, in which they receive necessary assistance and guidance, and have free use of the resources of the Sloane Laboratory.

Professor E. S. DANA :—

120 *Physics.* [Juniors.] 3 hrs. both terms.

A general course somewhat more advanced than course 123; the successive subjects are treated more in detail and are more fully illustrated.

Open to those who are members of either first division in Sophomore year, and to a limited number in addition who may be specially recommended by their Sophomore instructors in Mathematics.

121 [*Mineralogy and Crystallography.* 2 hrs. both terms.

Practical study of mineral species by means of blowpipe analysis and other methods; mathematical study of crystals by the methods of analytical and spherical trigonometry, as also of their optical properties. The time is divided about equally between the two parts of the subject; the practical exercises are prolonged to cover two hours when but little outside preparation is called for. This course will not be given in 1893-94.]

122 *Descriptive Mineralogy.* [Seniors.] 1 hr. both terms.

Advanced course in the study of mineral species, particularly on the physical and crystallographic side, for those who have already gone through course 121.

Mr. DAY :—

123 *Physics.* [Juniors.] 2 hrs. both terms.

A general and rather elementary course, taking up in succession the subjects of Heat, Sound, Light, and Electricity; with class-room illustrations.

Professor GOOCH :—

[In Courses 124 to 127 two hours in the laboratory constitute a single exercise and count as the equivalent of a single hour in the elective scheme. In all these Courses, a special fee is charged to cover the cost of materials used. Courses 128, 129, 130, with Course 124, constitute a connected and continuous line of study in Biology, extending through the Junior and Senior years.]

124 *Experimental Inorganic Chemistry.*

3 exercises both terms.

Practical laboratory work, lectures, and written exercises. An introduction to elementary chemical theory, the use of symbols and formulae, and the descriptive study of the elements and their compounds. This course is preliminary to the other courses in Chemistry and to the course in Biology.

125 *Experimental Organic Chemistry.* 3 exercises both terms.

An introduction to the study of the compounds of carbon. Laboratory work with lectures. Open only to those who have previously taken course 124.

126 *Qualitative Chemical Analysis.* 3 exercises both terms.

Laboratory practice in the ordinary processes of qualitative analysis, with lectures. Open to those who have taken course 124.

127 *Quantitative Chemical Analysis.* 3 exercises both terms.

Laboratory practice in the use of the simpler methods of gravimetric and volumetric quantitative analysis. Open to those who take also course 126, or have taken it previously.

Professor CHITTENDEN :—

128 *Physiology.* [Juniors.] 1 hr. both terms.

Huxley's Lessons in Elementary Physiology, with occasional lectures and illustrative experiments. This course is limited to those who take course 124, and is designed as a preparation for courses 129 and 130 of Senior year, and is open only to those intending to take these courses.

129 *Physiological Chemistry.* [Seniors.] 4 hrs. 2d term.

Four exercises a week, of a minimum of two hours each, in the laboratory of physiological chemistry. This forms a contin-

uation of course 130 and is open only to those who have taken courses 124 and 128 in Junior year. The time is devoted mainly to a study of the chemistry of the connective, contractile, and nerve tissues, of the chemical processes of salivary, gastric, and pancreatic digestions, and so far as the time allows, of other subjects connected with the physiology of nutrition and the chemistry of the excretions.

A short course of lectures by Professor S. I. Smith on Embryology, and a somewhat longer one by Professor Chittenden on Experimental Toxicology, are also open to students in the above course.

A laboratory fee is charged for courses 129 and 130. The student in addition must bear the expense of gas, flasks, etc., which should not exceed ten dollars.

Professor S. I. SMITH :—

130 *Elementary Anatomy and General Biology.*

[Seniors.] 4 hrs. 1st term.

Four exercises, of a minimum of two hours each. Laboratory work and informal lectures. The time is devoted principally to dissections of the frog, and work with the microscope on the lower plants and animals, and in vertebrate histology, with special reference to the rudiments of biology and the elements of the morphology of animal tissues. The student is required to make microscopical preparations, keep careful records of his work, and pass frequent examinations. Open only to those who have taken courses 124 and 128 in Junior year, and to be followed by course 129, 2d term.

Assistant Professor FERRIS :—

131 *Human Anatomy.* [Seniors.] 1 hr. both terms.

A general course in Human Anatomy adapted to the demands of students in biology.

IX. MATHEMATICS

Professor NEWTON :—

132 *Calculus.*

2 hrs. both terms.

133 *Integral Calculus and Mechanics.*

[Seniors.] 3 hrs. both terms.

Mean values and probabilities; differential equations; analytical statics and dynamics. Open only to those who have taken course 132.

134 *Shooting Stars and Meteors.*

1 hr. both terms.

The mathematical theories of these bodies, and the treatment of the observation of them. Persons selecting this course are expected to make observations on shooting stars in specified hours during the summer vacation and the first term. These observations will be made use of in the course of instruction.

Professor GIBBS :—

135 *Vector Analysis.*

[Seniors.] 2 hrs. 1st term.

Elementary course, in which the simple problems of geometry, kinematics, and mechanics are treated by vector methods. The matter taught is not entirely unlike that usually given in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's.

136 *Vector Analysis.*

[Seniors.] 2 hrs. 2d term.

Advanced course, including differentiation with respect to position in space, the theory of the potential and allied functions, and that of linear vector functions. This course is especially designed for an introduction to the study of mathematical physics, and is open only to those who have taken the preceding.

Professor PHILLIPS :—

137 *Analytical Geometry.*

2 hrs. both terms.

An extension of the course in the plane and solid Analytical Geometry of Sophomore year, including the use of determinants and trilinear coördinates; methods of tracing algebraic and transcendental curves; study of machines for tracing curves and of models of mathematical surfaces. Newcomb's *Analytical Geometry* is used as the basis of instruction. This will be supplemented by lectures.

Assistant Professor BEEBE :—

138 *Surveying.*

2 hrs. both terms.

Field Work: 1st term, Land surveying; use of chain, compass, and surveyor's transit; construction of verniers and determina-

tion of instrumental errors. 2d term: Leveling and Topography; use of surveyor's level and plane table; determination of grade lines, contour, cut and fill.

Office Work: during the winter; platting surveys from field notes; map-drawing, plane and topographical; calculations of areas.

Recitations: during the year from Gillespie's or Johnson's *Surveying*. *

139* *Practical Astronomy*. 2 hrs. to Feb. 1st.

Observatory work with astronomical transit and chronograph for determination of sidereal and standard time, and with sextant and theodolite for determination of latitude and azimuth. Numerical computations for reduction of observations. Recitations from Loomis's *Practical Astronomy*. Open only to those who have taken course 138.

140* *Geodesy*. 2 hrs. from Feb. 1st.

Measurements and computations for a secondary triangulation from a base line of the U. S. Coast Survey; reductions to center; distribution of errors; measurement of a base of verification. Open only to those who have taken course 139.

141 *Descriptive Astronomy*. 1 hr. both terms.

The course pursued is essentially that presented in the abridged edition of Young's *Astronomy*. Facilities are given for the study of the constellations and the use of the telescope.

142 *Descriptive Astronomy (Advanced)*. 1 hr. both terms.

Young's *General Astronomy*; Clerke's *History of Astronomy*. Open only to those who have taken course 141.

Mr. DUTCHER:—

143 *History of Mathematics*. 1 hr. 1st term.

Course in investigation under the supervision of the instructor, with occasional papers on assigned topics.

144 *Higher Trigonometry*. 2 hrs. 1st term.

Exponential and logarithmic series; DeMoivre's theorem; hyperbolic functions; errors of observation, etc.

145 *Modern Geometry*. 2 hrs. 2d term.

Projective properties of the point, line, and conic. Cremona's *Projective Geometry*.

* In 1893-94 course 140 will not be given, and course 139 will be 1 hour through the year.

X. MUSIC

Professor STÖCKEL :—

146 *Harmony.* 2 hrs. both terms.

Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody. This course meets but *once* a week in a recitation of 2 hours.

147 *Counterpoint, Canon, Fugue.* 2 hrs. both terms.

Counterpoint: single, double, triple, quadruple. Imitation. Canon, Fugue.

148 *Forms.* 1 hr. both terms.

Motive, Phrase, Period. Part, Song, Rondo, Sonata. Orchestral Forms.

Lectures are given on the *History of Music, Sacred and Secular. Aesthetics. Analysis*: Oratorio, Opera, Chamber-music, Symphony. *Biography*: Palestrina, Bach, Handel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

Members of any department in the University may be admitted to courses 146, 147, 148. The lectures are open also to friends and scholars of music, who are not matriculated. Admittance to course 146 is without examination. Admittance to course 147, after passing a satisfactory examination in the work of course 146. Admittance to course 148, after passing a satisfactory examination in the work of course 147.

Special students may be admitted as members of the classes in music.

XI. PHYSICAL CULTURE

149 Dr. ANDERSON and Dr. SEAVER :—

2 hrs. both terms.

This course is open only to those members of the Senior Class who intend to teach physical culture or to direct departments of physical education in institutions of learning. The work comes under two general branches as follows:

Dr. SEAVER :—

a. Physiology.

1 hr. both terms.

This work consists of one recitation a week during the year. The first term is devoted to biology and elementary physiology. The second term is devoted to human physiology ; special attention being given to a study of the circulation, respiration, digestion, and excretion. The hygienic importance of these topics is carefully studied.

Dr. ANDERSON :—

b. Theory of Gymnastics.

1 hr. both terms.

Under this head are discussed (*a*) the scientific basis of physical training ; (*b*) history of gymnastics and growth of the various systems ; (*c*) means employed, such as apparatus and appliances ; (*d*) physical examinations and measurements ; (*e*) pedagogy of gymnastics ; (*f*) practice in teaching gymnastics three hours a week.

Three hours a week are required in special gymnastic drill.

The following statements are added to explain the general aim and scope of the instruction in some of the leading subjects of study.

GREEK—During the first two years, the student reads five or six books of Homer, dramas of Aeschylus, Sophocles, and Euripides, one or two comedies of Aristophanes, selections from the history of Herodotus, one or more orations of Demosthenes, Isocrates, or Lysias, the Apology or some dialogue of Plato ; occasionally, the Symposium of Xenophon or selected dialogues of Lucian. These works are selected with a view to making the student familiar with the leading branches of Greek literature, and the most interesting phases of Greek life and thought. The most important grammatical principles are reviewed in Freshman year ; in Sophomore year, grammatical questions are discussed rarely, except as they are necessary for the interpretation and illustration of the author's meaning. In reading the works of the poets, less attention is paid to linguistic and grammatical points than to their literary quality, to the structure of the poems, to poetic words, forms, arrangement of words, rhythm, and constructions ; but the growth and development of the language are discussed as well as the development of the literature. In reading the orators and historians, the connection

of thought and of events is made prominent. Greek prose composition is practiced so far only as to aid the student in reading Greek authors, and to quicken his perception of nice distinctions in the order and choice of words and construction.

In the optional courses of the Junior and Senior years, the student has the opportunity of reading the works of the lyric poets, other Greek dramas, and other dialogues of Plato, parts of Aristotle (his *Politics* and *Ethics*), and the idyls of Theocritus; as well as of studying Greek inscriptions, and of doing more critical work on the Homeric poems than is suited to the first College year; and of learning the Modern Greek language. The history of Greek philosophy is studied. Students may also attend Professor Hoppin's fully illustrated lectures on Greek art, in the Art School.

LATIN is continued as a required study till the close of the Sophomore year, when it is intended that the student shall have gained clear conceptions of the genius of the language and its relations to other ancient and to modern tongues, a good knowledge of the characteristics of Latin literature and the essential facts of Roman history, and some appreciation of the position of Rome in the history of civilization. That subsequent reading of the language may be more easy and more exact, due attention is given in the early part of the course to forms, constructions, and idioms. From term to term the study of the literature is made more prominent, and particular texts are treated as means for the study of the public and private life of the Romans. Instruction is given mainly by recitations, but such work is supplemented by occasional lectures by the instructors and by conferences on papers presented by the pupils. In connection with the minute study of the authors, considerable time is given to oral and written reading at sight, and to composition in Latin.

For Juniors and Seniors who desire to continue their Latin studies, parallel courses are offered by different instructors, with different ends in view and by different methods. The characteristic of a course may be, *e. g.*, literature, or history, or philology, or antiquities, or the speaking and writing of Latin; and the methods of preparation and the class-room treatment vary accordingly. Topics suggested by the nature of the courses, or by individual tastes and intentions, are assigned to students, and papers thus prepared are discussed before the class. Lectures and the rapid reading of large amounts of texts are more frequent than in the prescribed courses. The connection of Latin with English is emphasized, and written translations are from time to time required and criticized with reference both to their faithful reproduction of the Latin thought and their idiomatic English. German annotated editions are often used, not only for their intrinsic

helpfulness, but also to encourage the practical use of that language. Students who give evidence of unusual capacity and attainments may be admitted to membership of graduate classes.

MATHEMATICS—In Geometry the exercises consist in recitations from the text-book, the original demonstration of theorems, and applications of the principles to the solution of numerical problems.

After the student has gained facility in the use of trigonometrical tables, the principles of Plane Trigonometry are applied to the problems of Mensuration, Surveying, and Navigation, and likewise those of Spherical Trigonometry to the elementary problems relating to the celestial sphere.

In Mechanics, the elementary principles of Kinematics, Kinetics, and Statics, in reference to solid bodies, are presented with practical applications.

In Algebra the elementary principles of the theory of equations are illustrated graphically, and the student is exercised in the numerical solution of equations of the higher degrees and the graphical representation of the relations of quantities.

In Analytical Geometry the student is carried through the elementary properties of the lines and surfaces of the second degree, and is introduced to the theory of map-projection.

In the Junior and Senior years opportunity is given in the elective courses to obtain a wider knowledge of Analytical Geometry and Trigonometry with their applications to Geodesy and Astronomy. A course is provided in Junior year in Differential and Integral Calculus, designed for such as expect to make a serious study of any department of pure or applied mathematics.

In Senior year advanced subjects in the Calculus and the elements of Analytical Mechanics form one line of study.

An elementary and an advanced course are provided in what is called Vector Analysis. The object of these courses is to introduce the student to the methods of multiple algebra in geometry, mechanics, and physics. The matter taught is not entirely unlike that usually given in courses in Quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's. The elementary course is confined to the simplest algebraic relations of vectors. The advanced course includes differentiations with respect to position in space, and the theory of linear vector functions.

Students who show special aptitudes are exercised in the working up of subjects which require the use of the library and more prolonged investigation than the daily exercises of the class-room. Such work begins in Freshman year. There is a considerable collection of models which are used to assist the imagination in the various branches of study.

ENGLISH—The required study of English Literature occupies three hours a week through one-third of Freshman year and the whole of Sophomore year. In Freshman year Brooke's Primer is read, to give the student a view of the whole field; three plays of Shakespeare and the minor English poems of Milton are read in the class-room.

In Sophomore year the following authors are read: Spenser, Shakespeare, Bacon, Milton, Addison, Swift, Pope, Dr. Johnson, Goldsmith, and Gray; and the history of the literature is followed in connection with the authors. Practice in composition work is afforded by the preparation of special papers on each author, which is required of the whole class.

A course in Old and Middle English is offered to Juniors and Seniors, and is intended as an introduction to a study of the origins of our language and literature.

A brief survey of the whole field of the History of English Literature is attempted in the Autumn term, the aim being to give such a view of the mutual relations of the principal authors and epochs as may enable the student to plan courses of English reading and study with intelligence and judgment. Instruction in this course is given by means of Brooke's Primer of English Literature, supplemented by topical study pursued through the medium of papers prepared by the members of the class, which, after being read aloud, are made the subject of discussion. The course in English Essayists is devoted not only to familiarizing the student with the thought of the author read, but also to some examination of the qualities of English prose style as exemplified by these authors.

Opportunity is afforded for the critical study of a number of individual authors in as many different courses. Among those most frequently studied at present are Chaucer, two Elizabethans, Bacon and Shakespeare, and two eminent contemporaries of this century, Tennyson and Browning. Stress is laid in these courses upon the distinctive personality and workmanship of the writer in question, but an endeavor is also made to promote the conception of literary masterpieces as wholes, as works of art subject to the laws of inner unity and harmony, and not merely as texts for verbal study or collateral illustration.

A course in American Literature is intended to introduce the student to the history of that subject, and to acquaint him with some of the representative work of the chief American authors, especially those of the present century.

GERMAN—The student may pursue the study of German during each of the four years of his College course, if he so elect. While the study may be begun at the opening of any of the four years, it is strongly

urged that the elementary work be done as early in the College course as possible, in case the student proposes to take up the language at all.

The courses of work for the successive years may be outlined as follows. During the first year the work consists of German grammar, translation of easy English phrases, sentences, and stories into German, and of easy German prose into English. Constant sight-translation is used as a means for developing and strengthening the student's vocabulary and for freeing him from dependence upon the lexicon and from the word-by-word methods which its use encourages. Especial care also is devoted to pronunciation. The work of the second year continues and extends that of the first year, taking up the translation of German prose, narrative, critical, and historical composition, and sight-translation. Throughout the two years the aim in reading German is to cover as much ground as possible—from 500 pages upwards—in the belief that thereby the student will acquire more command of the language than when a smaller amount is read with rigid attention to grammatical details. It is expected that at the end of the second year the student will be able to use the language in his work in other branches of study. Those, therefore, who are studying German solely for this end in view may perhaps abandon the language at this point; but no student should begin the language unless he expects to devote at least two years to its study.

For the remaining years the elective courses vary from year to year; but opportunity is given for the critical study of some of the masterpieces of German literature and for the study of periods in its history. Those who so elect may also have opportunity to take up the earlier German literature and to study the historic development of the grammar of the language.

German readings are given by the instructors, outside of the regular College work, and advanced classes in composition are formed, where German alone is spoken. German is constantly read aloud in the class-room, and all efforts, both in the class-room and in private, are made to improve the student's pronunciation and to help him to acquire some facility in expressing his ideas in German. But it is not a leading aim in the instruction in German to enable the student to converse in that language. Training in the ordinary conversational idiom may be had more profitably elsewhere and cannot form any considerable part of the class-room work. The student may acquire the language as a tool for use in other departments of study, and may come in contact with the best works of German literature, studying their form and contents, and the lives and environment of their authors; fluency in conversation must be acquired where the conditions are more fitted to the object which they are to effect.

ROMANCE LANGUAGES—In his Junior year the student who has satisfactorily passed the Sophomore examination in French can elect, according to his relative proficiency, one or two of the following courses : *a*, a course conducted entirely in French and consisting of the study of some portion of French history ; *b*, a course of systematic readings and criticisms, covering a period of modern French literature ; *c*, a course in syntax and composition. Elementary courses in Spanish and Italian are likewise offered to him.

In his Senior year, he can be admitted to the following graduate courses : *a*, in French, Spanish, and Italian literatures ; *b*, in old French and Provençal.

In every case, the selections must be made with the advice and approval of the department.

PHYSICS—The course in Physics extends through a year with three exercises weekly. The general design of the course is to make the student acquainted with the fundamental principles of the science, to enable him to understand something of the methods of experiment and reasoning by which physical laws have been established, and to give him an insight into the degree of accuracy demanded in physical work. The subject of Electricity is treated at somewhat greater length than the other branches, and is fully illustrated by experimental lectures ; in this direction the recent equipment of the Sloane Laboratory makes the department especially strong. During the Junior and Senior years there is an opportunity for students desiring to avail themselves of it, to go forward with practical laboratory work, as is described in the list of elective courses.

CHEMISTRY—The study of this subject is optional. Four courses in experimental descriptive chemistry (inorganic and organic) and analytical chemistry are open to undergraduates. Instruction in these courses is given in practical exercises in the laboratory and demonstrations in the lecture-room. Frequent examinations to emphasize the more essential points, as well as to test the progress of the student, are an important feature of the plan of work. It is the aim of these courses to teach the facts and principles of chemistry by the inductive and experimental method. Students sufficiently advanced have the opportunity to undertake the solution of problems demanding original thought and investigation.

GEOLOGY—The instruction in this department is designed primarily to acquaint the student with the fundamental facts of the constitution of the earth, the arrangement of its parts, and the materials and forces

which have been and are the basis of its history. As far as practicable the class-room instruction will be supplemented by the use of specimens such as are found in the museums or such as make up the geological features of the vicinity of New Haven. The facts and phenomena of the science will be also used as an introduction to the methods of making observations, of deriving from them correct scientific notions, and in general as a means of the exercise and development of the faculties of inductive reasoning. Students prepared for the work will be encouraged to make special investigations in the lines of historical geology and the history of organisms, for which the facilities are ample, and in other special problems of structural geology well exhibited in and about New Haven.

POLITICAL SCIENCE AND LAW—An elementary course in Economics is provided which treats not merely the general principles of the science, but some of the most important practical applications in Finance and Legislation. Walker's Political Economy is used as a text-book, and is supplemented by constant lectures and discussions. Those who take Economics in Junior year have an opportunity in Senior year to become acquainted with the history of the science and the controversies now going on in it, and to study more thoroughly special topics. In the course in Anthropology they are also offered an opportunity to become acquainted with the new sciences whose investigations are so important for the whole field of social science.

The course in Law treats of municipal and international law as parts of a liberal education. The object is to study civil institutions, both in their theory and in their positive form. The instruction is elementary, dealing with the fundamental facts and principles which underlie the civil polity of the American State, and is intended to give the student a correct knowledge of such essential facts about the life of the State and its accepted doctrines, as every educated man should possess, as well as to lead up to the professional study of law.

MENTAL AND MORAL SCIENCE, AND PHILOSOPHY—The courses in this branch of study begin in Junior year, and continue until graduation. During Junior year, three hours per week of class-room work in Logic, Psychology, Ethics, and the Evidences of Religion, and during Senior year two hours per week of class-room work in Philosophy, are required of every student; the remainder of the work in these and kindred subjects is elective.

LOGIC—This is a required course beginning in the Junior year. It aims at a thorough knowledge of the principles of deductive and in-

ductive reasoning. In deductive Logic special attention is given to an analysis of the syllogism as well as to a study of its functions and logical value. Oral and written discussions of examples of deductive argument constitute a considerable portion of the work of the class. In deductive Logic the problem, grounds, and principles of induction are discussed. A great deal of attention is given to familiarizing the students with the principles and methods of scientific investigation. Essays on observation, experiment, classification, hypothesis, etc., are required. The work in Logic includes an examination of recent logical theories.

The course in Deductive Logic is based on Jevons-Hill's *Elements of Logic*; in Inductive Logic on Fowler's *Deductive Logic*.

PSYCHOLOGY—Required work in this subject begins in Junior year and consists of three exercises a week, continued through rather more than half the college year. Although the course is taught with constant use of a text-book, upon which recitations are exacted, considerable time from the first is taken by the teacher in oral instructions, critical or supplementary of the text. Attention is called to the most recent advances in experimental psychology, and to the educational bearings of the subjects treated. The most important of the older and newer works on psychology are placed in the University Reference Library for the use of students who are urged to do side reading in connection with the class-room work. The course in Physiological Psychology extends through the entire year and is taught by lectures and recitations; it is illustrated by constant use of models, charts, histological preparations, apparatus for mixing color-sensations, etc. It is designed to go briefly over the whole ground of the modern experimental and physiological study of mental phenomena; especially as regards reflex and automatic cerebral action, the localizing of cerebral function, the quality and quantity of sensation, psychometry, and the physical basis of the higher faculties. It may be elected either in the Junior year as preparatory, or in the Senior year as supplementary, to the required course in introspective Psychology. The newly equipped laboratory furnishes facilities for performing the experiments before the class.

HISTORY OF PHILOSOPHY—The study of this subject is confined to the Senior year. In the study of the History of Greek Philosophy the principal emphasis is laid upon Plato and Aristotle, and upon the post-Aristotelian Schools, as illustrating the permanent and most interesting problems of Philosophy.

The course in Modern Philosophy extends through the whole of the Senior year. The subject is taught both by recitations from the text-

book, with accompanying remarks from the teacher, and by lectures. Effort is made to secure from each pupil the careful reading of at least one work of some prominent philosopher of the period considered in the class-room. Special emphasis is laid upon the philosophy of Kant. It is a constant aim to trace the development of modern speculative thought so as to throw light upon the principal questions in debate among present writers in philosophy.

PHILOSOPHY—In addition to the study of Philosophy as connected with the problems of rational Psychology, and as illustrated and enforced by the history of the development of Philosophy, the works of one or more of the leading authors are read and discussed, with such students as take the elective courses opened for this purpose. In this way the more general studies in Metaphysics and Ethics are supplemented by special information regarding selected subjects and writers.

MORAL SCIENCE, as a study, is intimately connected with the instruction in Psychology and Philosophy, as its foundations are discovered in the constitution of the human soul, and its method and fundamental relations are justified and enforced by those principles which are essential to all scientific thinking. In the department of Moral Science and of Practical Ethics, a somewhat thorough course is required of the entire Junior class, as an essential element of a thorough education and an important condition for practical usefulness. This general course is supplemented by special classes in scientific and practical Ethics, and particularly in the history and criticism of ethical theories, which are maintained through the year.

SPECIAL HONORS

Special Honors are conferred at the end of Senior year.

One-year and two-year honors may be taken in the following groups of studies :

(1.) Philosophy. (2.) History. (3.) Political Science and Law. (4.) English. (5.) Ancient Languages. (6.) Modern Languages (exclusive of English). (7.) Natural and Physical Science. (8.) Mathematics.

A candidate for a one-year honor must pursue with distinction in his Senior year, and a candidate for a two-year honor in his Junior and Senior years, courses (whether

prescribed or elective) amounting to an average of at least six hours per week in one of the specified groups. For a two-year honor the work must be so distributed that an average of at least four hours per week is taken in Junior year.

In History, courses *taken in Junior Year* can be counted as part of the work for two-year honors in Political Science and *vice versa*.

In Classics, Modern Languages (exclusive of English), and Mathematics, two-year honors will not be given unless the work in those subjects amounts to four hours per week in each year.

Students taking a sufficient number of hours in any group may by that fact be considered as candidates for honors in that group.

A candidate's whole work in any group, though it may be more than the minimum requirement for an honor, will be reckoned as in competition for the honor.

A candidate for either honor must present a meritorious thesis before June 1, of his Senior year.

[In the department of Modern Languages, elementary German, and in the department of Ancient Languages, elementary Hebrew, will not be reckoned for honors. In the department of Mathematics, no student will be considered a candidate for honors, unless he has taken the Calculus.]

TERMS AND VACATIONS

THE PUBLIC COMMENCEMENT is held on the last Wednesday in June. The first term begins thirteen weeks from the day after Commencement-day and continues twelve weeks; the second term begins on Tuesday after the first Thursday in January and continues until Commencement-day with a Spring Recess—of eight days—including Easter. (See Calendar, p. 6.) The exercises of each term begin with prayers in the Chapel.

PUBLIC WORSHIP

PRAYERS are attended in the Battell Chapel, with reading of the Scriptures and singing, every week-day at 8.10 a. m., at which service the attendance of the students is required.

PUBLIC WORSHIP is held in the Chapel on Sundays, at which all the students are required to attend, except such as have special permission to attend the worship of other denominations, to which their parents belong. Such permission can be obtained only on presenting to the Dean a written request therefor from the parent or guardian.

THE YALE YOUNG MEN'S CHRISTIAN ASSOCIATION has a membership of about nine hundred, representing all departments of the University, and has its headquarters in Dwight Hall, which was erected in 1886, through the generosity of Mr. Elbert B. Monroe of Southport, Connecticut. This is a fine, stone building, situated on the college square, and admirably adapted to be the center of the social, religious life of the University; it contains a convenient reading-room, a carefully selected library, a large hall for general religious services, and separate rooms for the prayer-meetings of the various classes.

The Dwight-Hall lecture course, the devotional meetings, the classes for Bible study, and the mission-work carried on by the students, have come to be prominent features of Yale life.

LIBRARIES AND READING ROOMS

The Library of the University, containing over 165,000 volumes, is open every week-day to all the students for consultation and for the drawing of books; in a separate part of the building is the Linonian and Brothers Library, a collection of over 30,000 volumes in general literature specially selected for the use of the undergraduate students.

The College Reading-Room, containing the principal newspapers and periodicals, American and foreign, is open to the students every day and evening without charge.

There are also a reading-room and a select library (partly for circulation and partly for reference) in Dwight Hall.

GYMNASIUM

The Gymnasium is designed to provide all students of the University with opportunities not only for general exercises, but also for means of caring for the body with a knowledge of hygienic laws, as well as for specific training in view of any physical defects that may be remedied by rational superintendence.

The Department is under the supervision of two Directors, both of whom are regularly educated physicians.

The members of the different classes during a part of the year take exercises in the various forms of gymnastics under the instruction of the Directors, and any student may enter the classes in general gymnastics. An instructor is always present in the main exercise-hall to give individual or class work. All students requiring such care are assigned exercises suited to their special needs.

The appointments of the Gymnasium include a complete Turkish bath, marble swimming pool, marble tubs, bowling-alleys, rowing-tanks, free showers, separate room for boxing, fencing, wrestling, and manly sports, a locker room, and the main exercise-hall, which offers a clear floor-space of 10,000 square feet, and is from 22 to 56 feet in height.

The Gymnasium is open from 9.30 in the morning until 10 at night. Graduate and undergraduate students are entitled to the use of the tub and Turkish baths upon the payment of a small fee.

A thorough physical examination and record of each student is made yearly, and a record of these results is kept as a basis of advice as to exercise and regimen. An examination of these records shows that the standard of health of the average student improves during his College course.

The gymnastic training is designed to be progressive from year to year.

Members of other Departments may avail themselves of the use of the Gymnasium, including advice from the directors, use of apparatus, the Turkish baths, showers, bowling-alleys, etc., on the payment of a small fee.

The new Gymnasium, erected by graduates for the use of the University, was opened to students in 1892. The arrangement of the building is in general as follows: the location is on the north side of Elm street, and the front is 138 feet, while the depth is about 86 feet. The entrance is by an archway at the east end, which leads through the building to a large lot in the rear that affords room for outdoor exercises, such as throwing the hammer, putting the shot, hurdling, pole-vaulting, jumping, etc.

The basement is reached by an entrance from the lot, and contains an engine-room, laundry, a bath-room with twelve tubs, each provided with a shower and douche, toilet-rooms, a room with two bowling-alleys, and a room for free exercises and massage.

The first floor contains the spacious entrance-hall, or vestibule, a dressing-room for athletes, with bath and toilet rooms for their special use, a complete equipment of lockers, baths, a swimming-pool (23 x 50 feet), and two rowing-tanks large enough for eight-oar crews.

The second floor is occupied by offices, club rooms, and a large dressing-room with shower-baths and toilet-rooms adjoining. This room now has over one thousand ventilated lockers, with space for a thousand more whenever they may be needed.

EXPENSES

The Treasurer's bills are made out and delivered to the students, or (*request to that effect being made*) mailed to the parent or guardian, three times a year, viz: at the beginning of each term or half-term, at which time they are payable. If not paid before the end of the month, follow-

ing the month in which they are issued, the student will not be permitted to attend recitations until his bill shall have been paid, and in the allotment of college rooms will not be permitted to retain or choose a room. Drafts on New York, Boston, and Philadelphia are received at par.

The annual charges are: for tuition one hundred and twenty-five dollars, and for incidentals (including ordinary repairs, expenses of public rooms, gymnasium, libraries, and reading-room) thirty dollars. Of this amount fifty-five dollars are payable at the beginning of the first term, and fifty dollars at the beginning, and again at the middle of the second term. An additional charge of eighteen dollars is made in the last bill of the Senior year, to cover expenses of graduation.

ABSENCE ON LEAVE—A student who is absent from College on account of sickness, or for any other cause, and retains his place in his class, pays full tuition during such absence; such payment is required before the student can be admitted to examination.

BOARD is obtained at prices varying from three and a half to eight dollars a week. The average price is under five dollars.

THE YALE DINING HALL, adjacent to the College square, is under the direct control of the University and furnishes board at cost (approximating \$4.00 per week). The Hall contains seats for 450, and is open to students of the Academic and Scientific Departments. A bond of \$500 is required by the Treasurer of the University for each student admitted, and the price of board is charged on the regular term-bill. Application for seats at the table must be made to the steward, Mr. Vertner Kenerson.

ROOMS—There are in the College buildings nearly three hundred rooms occupied by students, at prices varying (according to location) from fifty cents to eight dollars per week, payable each term or half-term in advance. These rooms are not furnished, and the rates charged do not include heat or light.

Farnam Hall (built in 1869-70) is named in commemoration of Henry Farnam, Esq., of New Haven, who bore the chief part of the expense of its erection; Durfee Hall (built in 1870-71) commemorates in like manner the generosity of Mr. Bradford M. C. Durfee, of Fall River, Mass.; Lawrance Hall (built in 1885-86) owes its name to a gift for this purpose from Mrs. Francis C. Lawrance, of New York City, in memory of her son, Thomas Garner Lawrance, of the Class of 1884, who died during his Senior year in College; and Welch Hall, completed in 1892, is the gift of Pierce N. Welch, Esq. (Yale College 1862), of New Haven, in memory of his father, the Hon. Harmanus M. Welch, of this city, who died in 1889.

Students living out of College are not allowed to room in any building in which a family does not reside, except by special permission of the Faculty.

Members of the Junior, Sophomore, and Freshman classes, occupying any of the College rooms, may retain the same rooms for another academic year, by making application in writing to the locating officer, on or before Saturday, May 26, 1894. Rooms not reserved will then be offered to the classes in order: choices will be allotted to the Junior class on Tuesday, May 29, and to the Sophomore class on Thursday, May 31.

PRICES PER WEEK OF ROOMS IN COLLEGE FOR 1893-94

When a room is occupied by two persons, each occupant will be charged with one-half the price named in this schedule. The prices given for Welch Hall include steam-heat.

\$0.50.—66, 67, 82 North Middle; 188, 189 Old Chapel.

\$0.75.—33, 49 South Middle; 65, 68, 81, 84 North Middle; 98, 99, 114 North.

\$1.00.—34, 50 South Middle; 79, 95 North Middle; 97, 100, 113, 116 North; 190, 191 Old Chapel.

\$1.25.—46, 47, 62, 63 South Middle; 71, 75, 78, 87, 91, 94 North Middle.

\$1.50.—38, 39, 43, 54, 55, 59 South Middle; 74, 77, 80, 90, 93, 96 North Middle.

\$1.75.—45, 48, 61, 64, South Middle; 72, 76, 88, 92 North Middle; 103, 106, 107, 110, 111, 119, 122, 123, 126, 127 North.

- \$2.00.—37, 40, 41, 44, 53, 56, 57, 60 South Middle; 69, 73, 85 North Middle; 101, 104, 105, 108, 109, 112, 125, 128 North; 133, 137, 141, 160, 167, 175 Farnam; 186, 187, 192, 193 Old Chapel.
- \$2.50.—120, 124 North.
- \$3.00.—182, 183 Lyceum.
- \$3.50.—142, 143, 158, 159, 161, 162, 176, 177 Farnam; 250, 251, 260, 261, 270, 271, 281 Lawrance.
- \$4.00.—130, 131, 138, 139, 144, 145, 146, 147, 154, 156, 157, 164, 165, 172, 173 Farnam; 180 Lyceum.
- \$4.50.—134, 135, 140, 148, 149, 151, 152, 168, 169, 174 Farnam; 208, 215, 216, 223, 224, 231, 232, 239 Durfee; 248, 249, 258, 259, 268, 269, 279 Lawrance.
- \$5.00.—129, 163 Farnam; 202, 209, 210, 217, 218, 225, 226, 233 Durfee; 241, 242, 246, 247, 252, 253, 256, 257, 262, 263, 266, 272, 273, 277, 282 Lawrance; 296, 311, 312, 327 Welch.
- \$5.50.—206, 214, 221, 222, 229, 230, 237 Durfee.
- \$6.00.—132, 166 Farnam; 204, 211, 212, 219, 220, 227, 228, 235 Durfee; 245, 254, 255, 264, 265, 274 Lawrance; 284, 295, 297, 298, 299, 300, 301, 302, 313, 314, 315, 328, 329, 330 Welch.
- \$7.00.—178, 179 Lyceum; 201, 203, 234, 238, Durfee; 280 Lawrance; 283, 285, 286, 288, 292, 303, 304, 308, 316, 317, 318, 319, 323, Welch.
- \$8.00.—278 Lawrance; 287, 289, 291, 293, 305, 306, 309, 310, 322, 326 Welch.
- \$8.50.—290, 294, 320, 324 Welch.
- \$9.00.—321, 325 Welch.

The subjoined table gives near estimates of the ordinary annual expenses in College, omitting clothing and vacation charges.

	Lowest	General Average	Very Liberal
Treasurer's bill, tuition,	\$125	\$125	\$125
" " incidentals,	30	30	30
Rent and care of half-room in College,	15	75	125
Board, 36 weeks,	125	175	288
Furniture, average of half-room for 4 years,	10	20	35
Fuel (steam-heat) and light, for half-room,	15	20	28
Washing,	15	25	42
Text-books and stationery,	10	25	40
Subscriptions (to Societies, Sports, Periodicals, etc.),		20	100
Private servant, for special care of room,			25
Sundries,	5	75	187
Total,	\$350	\$591	\$1025

BENEFICIARY AID

The sum of twenty thousand dollars and upwards, derived mainly from permanent charitable funds, is annually applied by the Corporation for the relief of students who need pecuniary aid, especially of those preparing for the Christian ministry. In this amount are included the income of the LANGDON FUND, of four thousand dollars, bequeathed in 1835 by Solomon Langdon, of Farmington, Connecticut, and a portion of the income of the ELLSWORTH FUND, now about ninety-six thousand dollars, received since 1858 from the estate of the Hon. Henry L. Ellsworth (Yale College 1810); both these funds are used for the support of students intending to enter the ministry. There is also a LOAN FUND, the income of which is used for scholarships, which has been constituted from repayments made to the treasury by former students who have received aid during the College Course. The College has also a considerable number of scholarship funds, each yielding one hundred and fifteen dollars a year, the income of which is appropriated to worthy applicants. Those needing aid should apply to the President before November 1st in each year of the College course. No assignments from these funds are made before admission to College.

Assistance will be withdrawn from students who incur serious College censure, or who fail to maintain a reputable scholarship.

THE MORGAN FUND, bequeathed by the late Henry T. Morgan, of New York City, has been set apart by the Corporation, with the provision that the income shall be divided into scholarships (at present thirty-seven in number, yielding one hundred and fifteen dollars each), to be assigned by the Faculty for the benefit of indigent and deserving students.

THE MARETT FUND, amounting to over one hundred and thirty-two thousand dollars, which was established by the will of Philip Marett, Esq., of New Haven, in 1869, and was received in 1889, has been appropriated for beneficiary scholarships, in aid of needy and deserving students.

THE CHRISTMAN FUND, amounting to over twenty-two thousand dollars, bequeathed by Joseph A. Christman (Yale College 1857), of New York City, who died in 1888, is devoted to the support of poor and meritorious students.

THE HARMER FOUNDATION OF SCHOLARSHIPS, the proceeds of a bequest in 1854 from Thomas Harmer Johns (Yale College 1818), of Canandaigua, N. Y., comprises five scholarships, each yielding at least one hundred dollars a year, to be given to deserving students of small means.

THE LYON SCHOLARSHIP FUND, of forty-four hundred dollars, given in 1868-72 by Mr. Morris W. Lyon (Yale College 1846), of New York City, benefits four scholars, selected for their worth and need by the founder or the Faculty.

THE LUCIUS HOTCHKISS FUND, of ten thousand dollars, the bequest of Lucius Hotchkiss, Esq., of New Haven, in 1881, comprises four scholarships, the income of which is given to indigent and deserving students.

THE LEAVENWORTH SCHOLARSHIP FUND, now amounting to over eleven thousand dollars, was established in 1882 by the late Hon. Elias W. Leavenworth (Yale College 1824), of Syracuse, N. Y., with the primary object of defraying in part the expenses of the education of students of good character and promise, bearing the surname of Leavenworth.

THE HOLMES SCHOLARSHIPS, one in each class in College, founded by Samuel Holmes, Esq., of Montclair, New Jersey, are filled upon the nomination of the Board of Agents of the Silas Bronson Library of Waterbury by students from the towns of Waterbury, Wolcott, Prospect, and Middlebury, Connecticut, who receive each the income of one thousand dollars *per annum*.

There are thirty-four other Scholarship Funds, most of them of one thousand dollars, the income of which may be given to such students as shall be selected by the founders or the Faculty. In this number are included Scholarships named in commemoration of William Allen, Charles Atwater, Mills Bordwell, William S. Charnley, William E. Dodge, Thomas H. and Luther Fuller, Sereno Gaylord,

Joel Hawes, John C. Holley, Charles L. Ives, Elisha C. Jones, William A. Macy, John S. Mitchell, Peter Parker, John M. Raymond, John Spaulding, and James M. Whiton.

There are also opportunities for students in need of aid to render service to the College as monitors, etc.; in this way about fifteen hundred dollars is disbursed annually. And in general it may be said that the other means of self-help at the command of students are sufficient to enable many of those who have spare time to provide for the larger part of their College expenses.

By the liberality of Mr. William L. Andrews, of New York City, and as a memorial of his son, Loring W. Andrews, of the class of 1883, a well furnished library has been established, containing text-books and works of reference, to be loaned gratuitously to those students who have need to avoid the expense of purchasing books. Permission to use this library is obtained from the Dean.

FELLOWSHIPS AND SCHOLARSHIPS

THE DOUGLAS FELLOWSHIP, with an income of six hundred dollars a year, was founded in 1873, by Mrs. Samuel Miller, of New Haven, and named in memory of her brothers, the Rev. Sutherland Douglas (Y. C. 1822) and George H. Douglas (Y. C. 1828). The incumbent, who must be a recent graduate of this Department, pursuing non-professional studies in New Haven, is elected annually, but no person shall hold the Fellowship for more than three years.

THE SOLDIERS' MEMORIAL FELLOWSHIP, with an annual income of six hundred dollars, was founded in 1875 by Mrs. Theodosia D. Wheeler, of New Haven, in honor of the alumni who fell in battle as Union soldiers, in the war of 1861-1865, and in special remembrance of William Wheeler, of the Class of 1855. The incumbent must be, at the time of his election, a graduate of this Department, of not more than three years' standing. He shall pursue

non-professional studies, and may hold the Fellowship for a period not exceeding five years. In selecting the incumbent, the President and Professors are to give preference to one who has shown special proficiency in Greek ; and for the further prosecution of Greek study, the Fellow may spend a part or the whole of the time of his incumbency in Athens, in connection with the American School of Classical Studies, instead of in New Haven.

THE SILLIMAN FELLOWSHIP, founded in memory of Professor Benjamin Silliman, Professor of Chemistry, Mineralogy, and Geology in Yale College from 1802 until his death in 1864, has an annual income of six hundred dollars, and is awarded to a graduate of this Department who has given evidence of proficiency and promise in some branch of physical science. The incumbent is elected annually, but no person shall hold the Fellowship for more than three years.

THE JOHN SLOANE FELLOWSHIP in Physics, established in 1889 by the gift of ten thousand dollars from John Sloane, Esq., of New York City, is awarded annually by the Faculty to a graduate of this Department who has shown marked proficiency in the study of Physics, and gives promise of success in the prosecution and application thereof. The incumbent shall reside in New Haven for at least thirty-six weeks in each academic year, pursuing a course of study in Physics and the related branches of science, and acting as an assistant in the Sloane Physical Laboratory ; he may be re-elected, but shall not hold the Fellowship for more than three consecutive years.

THE SCOTT HURTT FELLOWSHIP, with a foundation of twelve thousand dollars, was established in June, 1893, by Mrs. Sarah I. Hurtt, of New York City, in memory of her son Burgess Scott Hurtt, of the class of 1878, Yale College. The incumbent must be a graduate of the academical department, of not more than three years' standing at the time of his first appointment, and may hold the fellowship for three years by annual re-election. In addition to a

good moral character, the person appointed must have maintained a satisfactory standing in scholarship and must purpose to pursue a scholastic, professional, or scientific career, in which he gives promise of success. He shall, if required by the President and Professors, reside in New Haven for at least one year of his incumbency, during thirty-six weeks of the year, pursuing his studies there; but with this exception may have the privilege of prosecuting his studies at any foreign University, or at the American School of Classical Studies in Athens.

THE BERKELEY SCHOLARSHIP, founded in 1733 by the Rev. George Berkeley, Dean of Derry, and afterwards Bishop of Cloyne, Ireland, and yielding over sixty dollars a year, is awarded to the student in each Senior class who passes the best examination (which must be a creditable one) in the Greek Testament (Pauline Epistles), the first book of Thucydides, the first six books of Homer's Iliad, Cicero's Tusculan Questions, Tacitus (except the Annals), and Horace; provided he remain in New Haven as a graduate, one, two, or three years.

THE CLARK SCHOLARSHIP, being the income of a fund of two thousand dollars, given for this purpose by Mr. Sheldon Clark, of Oxford, Connecticut, is awarded in each Senior class to the applicant who has attained the highest rank in the studies of the course; provided he remain in New Haven for one year or two years immediately after graduation, pursuing a course of study (not professional) under the direction of the Faculty.

THE BRISTED SCHOLARSHIP, founded in 1848 by Mr. Charles Astor Bristed (Yale College 1839), of New York City, and yielding over one hundred dollars a year, is awarded, whenever there is a vacancy, to the student in the Sophomore or Junior class who passes the best examination in the classics and mathematics. The successful candidate receives the annuity (forfeiting one-third in case of non-residence) until the end of the third year after graduation.

THE FOOTE SCHOLARSHIPS, founded in 1873 by a bequest of Harry W. Foote (Yale College 1866), of New Haven, and yielding five hundred dollars a year, are awarded annually to graduates of this Department, selected by the Corporation, who remain in New Haven for one or more years pursuing studies in the graduate courses of the Department of Philosophy and the Arts.

THE LARNED SCHOLARSHIPS, three in number, each having a fund of seven thousand dollars, were founded in 1877 by the bequest of Mrs. Irene Larned, of New Haven, and were augmented in 1888 by the bequest of Mrs. Urania B. Humphrey, of Norfolk, Connecticut. One scholarship is awarded in each Senior class; the incumbent must reside in New Haven, pursuing a course of advanced study under the direction of the Faculty.

THE MACY SCHOLARSHIP, being the income of a fund of ten thousand dollars, derived from a bequest of the Rev. William A. Macy (Yale College 1844), of Shanghai, China, who died in 1859, is awarded, whenever there may be a vacancy, to a recent graduate of distinguished scholarship, who may hold it for a term of three years. He shall reside in New Haven, pursuing a course of non-professional study, and shall at the close of each College year present a meritorious thesis in evidence of his work during the previous year.

THE WOOLSEY SCHOLARSHIPS, each having the income of a fund of one thousand dollars, the gift of President Woolsey, in 1846-48, are awarded in successive years, one to the student in each Freshman class, who passes the best examination in Latin Composition (excellence in which is essential to success), in the Greek of the year, and in the solution of algebraic problems. The successful candidate receives the annuity, during the four years of his College course, provided he maintains a good standing in character and scholarship, and in the Junior year makes himself acquainted with the Differential and Integral Calculus. The student who stands second at this examination receives

for one year the income of the HURLBUT SCHOLARSHIP FUND, of one thousand dollars (established by Henry A. Hurlbut, Esq., of New York City, in 1858-9); and the student who stands third, the income for one year of the THIRD FRESHMAN SCHOLARSHIP FUND, of the same amount, given by Charles M. Runk, Esq., of Allentown, Pennsylvania, in 1864.

THE W. W. DEFOREST SCHOLARSHIP, being the income of a fund of two thousand dollars, bequeathed in 1867 by William Wheeler DeForest, of New York City, is awarded to a student in each Senior class who has attained distinction in the study of French while in College, provided he pursue for the year after graduation a further course of study in the modern languages, especially French, Spanish, Portuguese, or Italian, under the direction of the Faculty.

THE SCOTT HURTT SCHOLARSHIP was established in 1889 in memory of Burgess Scott Hurtt, of the class of 1878, Yale College, by his classmates and friends. The income of a fund of five thousand dollars is assigned in June of each year to a member of the Sophomore class, who is selected by the Faculty on the ground of approved scholarship; one half of the income will be paid to the incumbent during his Junior year, and one half during his Senior year, provided he continues to be in need of this assistance.

THE THOMAS GLASBY WATERMAN FUND, of forty thousand dollars, was received in 1890 from the estate of Thomas G. Waterman (Yale College 1886). The income is given to not more than three scholars, of manly character and limited means, who have distinguished themselves in their studies and give promise of achieving distinction in the line of work which they have chosen; the incumbents are elected annually by the Faculty from the Senior or Junior class, or from graduates of the Department of not more than two years' standing.

THE ALFRED BARNES PALMER SCHOLARSHIP FUND, of five thousand dollars, was given in 1892, by the Rev.

Charles Ray Palmer, D.D., in memory of his son, Alfred Barnes Palmer, of the class of 1892, Yale College. The annual income is paid, during his College course, to a student in avowed need of beneficiary aid, of unexceptionable character, and of high rank in scholarship.

PREMIUMS

THE DEFOREST PRIZE, founded in 1823 by David C. DeForest, of New Haven, and consisting of a gold medal, of the value of one hundred dollars, is awarded "to that scholar of the Senior class who shall write and pronounce an English Oration in the best manner," the President and Professors being judges.

TOWNSEND PREMIUMS, five in number, of twelve dollars each, founded in 1843 by the gift of Isaac H. Townsend (Yale College 1822), of New Haven, are awarded in each Senior class for the best specimens of English Composition; all compositions receiving Premiums must be read in public.

THE DEFOREST MATHEMATICAL PRIZES were established by the late Dr. John DeForest (Yale College 1826), and were augmented by his son, the late E. L. DeForest (Yale College 1854), of Watertown, Connecticut. A first prize of one hundred dollars, and three second prizes of fifty dollars each, are offered to the Senior Class for worthy solutions of problems in pure and applied Mathematics. This year about sixty dollars from the same source will be offered in prizes to the Junior, Sophomore, and Freshman classes respectively, for the solution of problems.

WINTHROP PRIZES, the income of a fund of five thousand dollars given in 1871 by Buchanan Winthrop, Esq. (Yale College 1862), of New York City, are annually offered to the Junior class "for the most thorough acquaintance with the Greek and Latin poets," particular attention being paid to elegance of scholarship and appreciation of the spirit of the poetry, as shown at an examination during the latter half of the second term. The first prize is two

hundred dollars, and the second prize is the balance of the income for the year.

The subjects for the examination in the class of 1895 are as follows: in Greek, Pindar; in Latin, Horace.

THE HENRY JAMES TENEYCK PRIZES, the income of a fund of twenty-six hundred dollars, established in 1888 by the Kingsley Trust Association in memory of Henry James TenEyck (Yale College 1879), are awarded to the successful competitors at the Junior Exhibition, in the second term of each year.

THE C. WYLLYS BETTS PRIZE, established in 1890 by the Phelps Association, in memory of the late C. Wyllys Betts, Esq., of New York City, a graduate of Yale College in the class of 1867, is offered to the Sophomore class for excellence in English Composition. The prize, being the income of a fund of one thousand dollars, is awarded annually to that member of the class who shall have exhibited the most meritorious work in the required compositions of the year and in a special essay on a prescribed subject.

COLLEGE PREMIUMS are given each year in the Sophomore class for Declamation.

THE THACHER MEMORIAL FUND, of three thousand dollars, founded in 1892, by gifts from the class of 1842, and named in honor of their former instructor, Professor Thomas A. Thacher, is devoted to the encouragement of the practice of extemporaneous debate. One hundred and fifty dollars of the income will be offered in prizes for this object during the current year.

SCOTT PRIZES for excellence in German and in French are offered to the Junior class; these are of the value of thirty dollars each, and are given in books. The prizes were founded by the bequest of Henry W. Scott (Yale College 1863), of Philadelphia, who died in 1871.

THE LUCIUS F. ROBINSON LATIN PRIZES, from the income of a fund of five thousand dollars given in 1887 by the daughters of the late Lucius F. Robinson (Yale College

1843), of Hartford, will be awarded the present year to students showing special proficiency in Latin :—one series of prizes (of fifty, thirty, and twenty dollars, respectively) being open to members of the Senior and Junior classes who have taken three hours per week in Latin electives ; and a second series, of the same amounts, to members of the Sophomore class.

BERKELEY PREMIUMS for excellence in Latin Composition are offered to the Freshman class near the end of each College year, from the surplus income of the Berkeley Scholarship Fund.

THE HUGH CHAMBERLAIN GREEK PRIZE, being the income of one thousand dollars given for this purpose, in 1886, by the Hon. Daniel H. Chamberlain (Yale College 1862), of New York City, is awarded annually to that member of the Freshman class who has passed the best examination in the Greek required for admission to College. Candidates for this Prize will be required to pass the whole examination in Greek the year of their entrance into College, even though they may have been accepted already in some or all of the Greek subjects in a previous year.

DEGREES

The degree of BACHELOR OF ARTS is conferred by the Corporation on those persons who have completed the course of academical exercises, as appointed by law, and have been approved on examination at the end of the course as candidates for the same. Candidates are required to pay their dues to the Treasurer as early as the Saturday before Commencement.

For the degrees of Master of Arts and Doctor of Philosophy, see page 139.

SHEFFIELD SCIENTIFIC SCHOOL

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THE SHEFFIELD SCIENTIFIC SCHOOL is devoted to instruction and researches in the mathematical, physical, and natural sciences, with reference to the promotion and diffusion of science, and also to the preparation of young men for such pursuits as require special proficiency in these departments of learning. Instruction is also given in French, German, English, History, Political Economy, and Political Science.

The School, begun in 1847, and reorganized upon a more extensive scale in 1860, received in 1863, by the act of the Connecticut Legislature, the national grant for the promotion of scientific education under the Congressional enactment of July, 1862, and thus became the College of Agriculture and the Mechanic Arts for Connecticut.

The name was conferred upon it by the Corporation of the University as a recognition of the late Joseph E. Sheffield, Esq., whose gifts to it at various times constitute its chief property and endowment.

OFFICERS AND INSTRUCTORS—Upon the Governing Board, consisting of the professors permanently attached to the School, devolve its internal management and the greater part of the instruction. In addition to these and the instructors employed during the current year, Professor Niemeyer, of the Yale School of the Fine Arts, gives instruction in Elementary and Free-hand Drawing.

THE BOARD OF STATE VISITORS consists of the Governor, the Lieutenant-Governor, three Senior Senators, and the Secretary of the State Board of Education.

The instruction is intended for two classes of students :—

I.—Graduates of this and other Colleges or Universities, and other persons qualified for advanced or special study.

II.—Undergraduates who desire a training, chiefly mathematical and scientific, in part linguistic and literary, for higher scientific studies, or for other occupations to which such training is suited.

INSTRUCTION FOR GRADUATE AND SPECIAL STUDENTS

Persons who have gone through undergraduate courses of study, here or elsewhere, may avail themselves of the facilities of the School for more special professional training in the physical sciences and their applications, gaining in one, two, or three years the degree of BACHELOR OF PHILOSOPHY, or in two additional years of Engineering study, that of CIVIL ENGINEER or that of MECHANICAL ENGINEER.

Or, engaging in studies of a less exclusively technical character, they may become candidates for the degree of DOCTOR OF PHILOSOPHY, under the conditions stated on page 139. The instruction in such cases will be adapted to the particular needs and capacities of each student, and may be combined with that given by instructors in other Departments.

SPECIAL STUDENTS—For the benefit of those who, being fully qualified, desire to pursue particular studies without reference to obtaining a degree, special or irregular students are received in most of the departments of the School; not, however, in the Select Course, nor in the Freshman Class. It should be distinctly understood that these opportunities are not offered to persons who are incompetent to go on with regular courses, but are designed to aid those who have received a sufficient preliminary education elsewhere to increase their proficiency in special branches.

TERMS OF ADMISSION

Candidates must be not less than fifteen years of age, and must bring satisfactory testimonials of moral character from their former instructors or other responsible persons.

For admission to the Freshman Class the student must pass a thorough examination in the subjects mentioned below. Certificates of standing elsewhere are not accepted in place of this examination, but it is desirable that each candidate should submit a statement from his principal

instructor, showing definitely the ground covered by his preparatory studies. The subjects required for the full entrance examination in 1894 are as follows :

English Grammar—Whitney's Essentials of English Grammar, or an equivalent.

History of the United States.

Geography.

Latin—(1) Simple exercises in translating English into Latin, together with the elements of Latin Grammar. (2) Caesar—the first four books of the Gallic War. (3) Vergil—the first two books of the Aeneid. The latter involves necessarily an ability to scan Latin Hexameters. For these four books of Caesar and two of Vergil's Aeneid, no equivalent will be accepted.

Arithmetic—Fundamental Operations, Least Common Multiple, Greatest Common Divisor, Common and Decimal Fractions, Denominate Numbers, including the Metric System of Weights and Measures ; Percentages, including Interest, Discount, and Commission ; Proportion, Extraction of the Square and Cube Roots.

Algebra—Fundamental Operations, Fractions, Equations of the First Degree, with one or several unknown quantities ; Inequalities, Ratio and Proportion, Powers and Roots, including the theory of Exponents, the Binomial Formula for an Entire Exponent, and the transformation and reduction of Radicals ; Equations of the Second Degree, Progressions, Continued Fractions, Permutations and Combinations, the Doctrine of Limits, the Nature of Series, the Method of Indeterminate Coefficients, Fundamental Properties of Logarithms, Compound Interest, and Annuities.

Geometry—Plane, Solid, and Spherical ; including fundamental notions of Symmetry, and examples of Loci and Maxima and Minima of Plane Figures,—so much, for example, as is contained in Newcomb's Geometry, exclusive of the chapters on the Ellipse, Hyperbola, and Parabola.

Trigonometry—including the Analytical Theory of the Trigonometrical Functions, and the usual formulae ; the Construction and Use of Trigonometrical Tables ; and the Solution of Plane Triangles :—so much, for example, as is contained in the first six chapters of Newcomb's larger Trigonometry and in articles 75-78 of chapter viii, with the explanation of the first five tables in Newcomb's five-figure Logarithmic and Trigonometric Tables, which are furnished at the examinations.

While no entrance examination will be required in the *History of England*, of the class entering in 1894, candidates for admission are

urgently advised to make themselves as familiar as possible with that subject, as a knowledge of it is essential to the most successful prosecution of some of the studies of the course.

Candidates are allowed to divide the examination, with an interval of not less than a year between the two parts. In such cases, they must present themselves at one of the two regular examinations (that is, either in June or September) of the first year for examination in the following subjects or parts of subjects: *Latin Grammar and Exercises, History of the United States, English Grammar, Geography, Arithmetic, Plane Geometry, and Algebra to Quadratic Equations.* Candidates taking this preliminary examination may offer in addition to these subjects one or more of the following subjects: *History of England, Botany, four books of Caesar, and English Literature.* In English Literature the works that may be offered in 1894 are: Byron's Fourth Canto of Childe Harold; Macaulay's Essay on Byron; Hawthorne's House of the Seven Gables; Thackeray's English Humorists; Tennyson's Princess. Each candidate must submit a definite statement from his principal instructor that he is authorized to take the preliminary examination.

In order to have this preliminary examination counted, candidates must pass satisfactorily on five of the seven required subjects; and notice of the intention to divide the examination must be given to Professor George J. Brush, Director of the School, on or before June 15. Under no circumstances will a candidate at the preliminary examination be allowed to offer any subject additional to those contained in the above lists.

In his preparation in GEOMETRY, the candidate should, as far as practicable, have suitable exercises in proving simple theorems and in solving simple problems for himself. It is important, too, that he should be accustomed to the numerical application of geometric principles, and especially to the prompt recollection and use of the elementary formulæ of mensuration. In TRIGONOMETRY he should be exercised in applying the usual formulæ to a variety of simple reductions and transformations, including the solution of trigonometrical equa-

tions. Readiness and accuracy in trigonometrical calculations are also of prime importance to the candidate. If the use of logarithms is postponed in his preparation till Trigonometry is taken up (which is by no means necessary or advisable), he should then have abundant applications of them to all forms of calculation occurring in ordinary practice, as well as to those appearing in the solution of triangles. Finally, in all his calculations, he should study the art of neat and orderly arrangement.

In LATIN, the student should have such continued training in parsing as shall make him thoroughly familiar with declensions and conjugations, and with the leading principles of syntax. To secure these results more effectually, the requirement has been adopted of simple exercises in translating English into Latin. As this course of exercises is designed solely as a preparation for reading, it should be begun at the earliest stage of Latin study. A very large proportion of the deficiencies in the Latin examination for several years past has been due to the neglect of the suggestions of this paragraph, and to the attempt to read a Latin author with totally inadequate grammatical preparation.

CHANGES IN THE ENTRANCE EXAMINATIONS

In the entrance examinations of 1895 the requirements for admission will be increased by the following subjects: History of England, Botany, and either French or German at the option of the student.

In the History of England, candidates will be expected to be prepared on as much as is contained in the shorter text-books, such as Montgomery's or Ransome's.

The requirements in Botany will include a knowledge of the structure and of the principles of classification of flowering plants, together with matters pertaining to fertilization and the dissemination of seeds. Gray's *Elements of Botany* is recommended as a suitable aid in preparing for the examination. It is desirable that the candidate should have had some experience in the analysis of common flowering plants.

In German, the following texts will be required for the entrance examinations of both 1895 and 1896:

Sturm's *Immensee*; Andersen's *Bilderbuch ohne Bilder*; Heyse's *La Rabbiata*.

In French the following texts will be required for the examinations of these same years :

Erckmann-Chatrian's *Le Conscrit*, or G. Sand's *La Petite Fadette*.

The applicant will also be required to translate at sight easy selections from German or French authors, and to have such a knowledge of grammar as will enable him to read intelligently the prescribed texts. This implies familiarity with the declensions of nouns, adjectives, and pronouns, with the conjugation and inflection of verbs, and with the syntax of cases. An ability to translate simple sentences from English into German or French will also be requisite.

There will also be an addition of one more book of Vergil to the requirement in Latin ; and in addition to the requirement in English mentioned above, students entering the Freshman class in 1895 will be examined upon a certain number of works belonging to the literature of the nineteenth century. The following is the list :

Byron's Fourth Canto of Childe Harold ; Macaulay's Essay on Byron ; Hawthorne's House of the Seven Gables ; Thackeray's English Humorists ; Tennyson's Princess.

This can be taken in the final examination of 1895, or in the preliminary examination of 1894. It will also be required in the final examination of 1896. For 1896 in addition to the works in the list just given the following will be required :

Coleridge's Ancient Mariner ; Scott's Ivanhoe, and Lady of the Lake ; Irving's Alhambra ; Macaulay's Essay on Clive.

The works in this second list can be presented at the preliminary examination of 1895 by those intending to take the final examination in 1896.

The examination will be mainly to test the student's knowledge of the matter contained in these works, though conditions may be imposed for defects of writing and expression.

In the preliminary examination in 1894, candidates will be required to offer Latin Grammar and Exercises, and will be allowed to offer, in addition to the present subjects, History of England, Botany, and four books of Caesar.

The regular examinations for admission in 1894 will be held in New Haven at North Sheffield Hall, on Thursday, Friday, and Saturday, June 28, 29, 30 (beginning at 9 A. M. on Thursday).

In 1894, examinations (for the Freshman Class only) will also be held in Albany, N. Y., Andover, Mass., Buffalo, N. Y., Chicago, Ill., Cincinnati, O., Cleveland, O., Concord, N. H., Dayton, O., Denver, Col., Dobbs Ferry, N. Y., Easthampton, Mass., Exeter, N. H., Groton, Mass., Lakeville, Conn., Lawrenceville, N. J., Milwaukee, Wisc., New York City, Norwich, Conn., Philadelphia, Pa., Pittsburgh, Pa., Portland, Oregon, Pottstown, Pa., St. Louis, Mo., St. Paul, Minn., San Francisco, Cal., Saxton's River, Vt., Southboro, Mass., Tacoma, Wash., and Washington, D. C. (beginning on Thursday, June 28, at 9 A. M.), at places to be announced in local newspapers of the day previous. Candidates who propose to be present are requested to send their names to Professor George J. Brush, Director of the School, before June 15. A fee of five dollars will be charged for admission to the examinations outside of New Haven.

A second examination is held, *in New Haven only*, at the beginning of the college year, on Monday, Tuesday, and Wednesday, September 24, 25, 26, 1894. Candidates for this examination must be present at North Sheffield Hall at 1.40 P. M. on Monday.

In general, examinations for admission to the Freshman Class of the *next* year can be held only in June and September as specified; if in any case sufficient reason exists for an exception to this rule, a special fee (not exceeding fifty dollars) will be charged.

All candidates for advanced standing, *whether from other colleges or not*, are examined, in addition to the preparatory

studies, in the studies already pursued by the class which they wish to enter. Certificates of standing elsewhere cannot be accepted in place of these examinations, although they may be taken into account as collateral evidence of fitness for admission. No one is admitted as a candidate for a degree, later than at the beginning of the Senior year.

INSTRUCTION FOR UNDERGRADUATE STUDENTS

COURSES OF INSTRUCTION, occupying three years, are arranged to suit the requirements of various classes of students. The first year's work is the same for all; for the other years, the instruction is chiefly arranged in Special Courses. The Courses most distinctly marked out are :

- | | |
|---|----------------------------------|
| (a.) In Chemistry ; | (b.) In Civil Engineering ; |
| (c.) In Mechanical Engineering ; | (d.) In Electrical Engineering ; |
| (e.) In Agriculture ; | (f.) In Natural History ; |
| (g.) In Mineralogy and other studies preparatory to Geology ; | |
| (h.) In Biology preparatory to Medical studies ; | |
| (i.) In studies preparatory to Mining and Metallurgy ; | |
| (j.) In Select studies preparatory to other higher studies. | |

The arrangement of studies is indicated in the annexed scheme. A fuller statement of the methods and character of the instruction will be found below, pp. 116 ff. Unless otherwise specified, the number of hours given means hours per week.

FRESHMAN YEAR: INTRODUCTORY TO ALL THE COURSES

FIRST TERM :—*German*—Whitney's Grammar and Selections from German authors, 3 hrs. *Mathematics*—Plane Analytical Geometry, 3 hrs. *Physics*—Recitations, 2 hrs.; Experimental Lectures, 2 hrs. *Chemistry*—Mixer's; Recitations, 2 hrs.; Laboratory Practice, 2 hrs. *Elementary Drawing*—Practical lessons in the Art School, 3 hrs.

SECOND TERM :—*German*, *Physics*, and *Chemistry*—as stated above. *English*—Lounsbury's History of the English Language, 3 hrs., replacing Chemistry during the latter part of the term. *Mathematics*—Plane Analytical Geometry, continued; the Derivatives of Algebraic

Functions ; Fundamental Properties of Equations, 3 hrs. *Drawing*—Principles of Orthographic, Isometric, and Oblique Projection ; Intersection and Development of Surfaces ; Outlines of Shadows ; Shading and Tinting ; Elements of Perspective ; Examples of various applications of Instrumental Drawing, 3 hrs.

NOTE. The Freshman class is divided, as soon as practicable, into several divisions according to scholarship, and an opportunity to make rapid progress is thus given to the more proficient.

For the Senior and Junior years, the students select for themselves one of the following Courses :

(a.) IN CHEMISTRY :

JUNIOR YEAR :

FIRST TERM :—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Recitations, 2 hrs. ; Laboratory Practice, 15 hrs. Blowpipe Practice and Determinative Mineralogy, 4 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM :—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Quantitative Analysis*—Laboratory Practice, 15 hrs. ; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determination of Species, 4 hrs. ; Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR :

FIRST TERM :—*Organic Chemistry*—Recitations and Lectures, 2 hrs. *General and Theoretical Chemistry*—Recitations, 3 hrs. *Chemical Physiology of Vegetation (Agricultural Chemistry)*—Lectures, 2 hrs. *Quantitative Analysis*—15 hrs. *Geology*—Recitations, 3 hrs. *French*—2 hrs.

SECOND TERM :—*General and Theoretical Chemistry*—Recitations, 3 hrs. *Agricultural Chemistry*—Lectures, 2 hrs. *Chemistry*—Analytical or Experimental Organic Chemistry, 15 hrs. *Metallurgy, Assaying, and Gas Analysis*, 2 hrs. *Geology*—3 hrs. *Mineralogy*—(optional). *French*—2 hrs.

The Laboratory Practice of the second term of Senior year may be devoted to such special branches of Analytical, Inorganic or Organic Chemistry as the student may desire, or to original investigations in connection with theses.

(b.) IN CIVIL ENGINEERING :

JUNIOR YEAR :

FIRST TERM :—*Mathematics*—Analytical Geometry of Three Dimensions ; Differential Calculus, with applications to Geometry and Analysis ; 5 hrs. *Surveying*—Field work, 16 hrs. till November. *Drawing*—Descriptive Geometry, 8 hrs. from November. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM :—*Mathematics*—Integral Calculus with applications to Geometry ; Rational Mechanics ; 5 hrs. *Drawing*—Descriptive Geometry, concluded ; Topographical drawing ; Practice in working-drawings ; 6 hrs. *Spherical Trigonometry*—4 hrs. *Surveying*—Topographical and Railroad curves, 16 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR :

FIRST TERM : *Field Engineering*—Location of line of Railroad, setting out slope-stakes, calculation of earthwork ; Lectures on economic location ; Office-work ; Henck's Field-Book ; first three weeks in September. *Civil Engineering*—Mechanics applied to Engineering ; Resistance of Materials ; Bridges and Roofs ; Stone Cutting with Graphical Problems ; 8 hrs. *Geology*—Recitations, 3 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 8 hrs. *French*—2 hrs.

SECOND TERM :—*Civil Engineering*—Bridges and Roofs ; Building Materials ; Stability of Arches and Walls ; Foundations ; 6 hrs. *Dynamics*—Principles of Mechanism ; Thermodynamics ; Steam Engine ; 6 hrs. *Hydraulics*—Hydraulics and Hydraulic Motors, 3 hrs. *Drawing*—Designing ; Practical Problems ; Specifications and Estimates ; 12 hrs. *Astronomy*—Practical Astronomy, with field-work ; Adjustment of observations ; Theory of Least Squares ; 6 hrs. *Geology*—3 hrs.

(c.) IN MECHANICAL ENGINEERING :

JUNIOR YEAR :

FIRST TERM :—*Mathematics*—Analytical Geometry of Three Dimensions ; Differential Calculus, with applications to Geometry and Analysis ; 5 hrs. *Principles of Mechanism*—Kinematics, 2 hrs. *Drawing*—Descriptive Geometry, 3 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM :—*Mathematics*—Integral Calculus, with applications to Geometry ; Rational Mechanics ; 5 hrs. *Principles of Mechanism*—Applied Kinematics ; Forms of Teeth of Wheels ; Cams ; Parallel Motions ; Transmission of Power by Belts and Gearing, etc. ; 1 hr. *Shop Visiting*—Study of Machine Details and Tools, 3 hrs. *Study of the Steam Engine*—Recitations and Lectures, 1 hr. *Drawing*—Machine Elements and Mechanical Movements, 3 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR :

FIRST TERM : *Applied Mechanics*—Recitations and Lectures ; Elasticity and Strength of Materials ; Theory of Flexure and Torsion ; Strains in Structures ; Construction of Roofs and Bridges ; 7 hrs. *Machine Designing*—Practical Exercises in Designing Machine Details and Simple Machines ; 7 hrs. *Study of the Steam Engine*—continued ; Recitations and Lectures ; 2 hrs. *Visits of Inspection*—Examination of Machinery in Operation ; Reports of Visits. *Blowpipe Analysis and Determinative Mineralogy* (optional)—3 hrs. *French*—2 hrs.

SECOND TERM :—*Applied Mechanics*—continued, 2 hrs. *Hydrostatics and Hydrodynamics*—Theory of Flotation ; Flow of Water in Pipes and Channels ; Resistance of Ships ; Theory of Water-Wheels and Turbines ; 2 hrs. *Thermodynamics*—Theory of Heat Engines, 2 hrs. *Study of the Steam Engine and Boiler*—2 hrs. *Machine Designing*—continued ; Advanced Exercises in Preparing Designs and Working-Drawings for Machinery ; Estimates of Weight and Cost of Machinery ; 7 hrs. *Blowpipe Analysis and Determinative Mineralogy* (optional), 3 hrs. *French*—2 hrs. *Lithology*—Lectures (optional). *Visits of Inspection and Reports*.

(d.) IN ELECTRICAL ENGINEERING :

JUNIOR YEAR :

FIRST TERM :—*Mathematics*—Analytical Geometry of Three Dimensions ; Differential Calculus, with applications to Geometry and Analysis ; Solution of Numerical Equations ; 5 hrs. *Theory of Heat*—2 hrs. *Descriptive Geometry*—3 hrs. *Mechanism*—2 hrs. *English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM :—*Mathematics*—Integral Calculus, with applications to Geometry ; Rational Mechanics ; 5 hrs. *Theory of Electricity*—2 hrs. *Descriptive Geometry*, followed by *Shop Visiting*—3 hrs. *Mechanism*—2 hrs. *English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR :

FIRST TERM :—*Theory of Observations and Theory of Instruments*—2 hrs.
Laboratory Work—6 hrs. *Machine Designing*—6 hrs. *Study of the Steam Engine*—2 hrs. *French*—2 hrs.

SECOND TERM :—*Theory of Electricity*—2 hrs. *Laboratory Work*—6 hrs.
Machine Designing—6 hrs. *Thermodynamics*—2 hrs. *French*—2 hrs.

(e.) IN AGRICULTURE :

JUNIOR YEAR :

The course is identical with that in Chemistry, except that in the second term lectures in Crystallography and Descriptive Mineralogy are omitted, and in the Spring half-term Botany is substituted for Determinative Mineralogy.

SENIOR YEAR :

FIRST TERM :—*Agriculture*—Recitations, 2 hrs. *Agricultural Chemistry* (Chemical Physiology of Vegetation)—Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—Lectures, 2 hrs. *Meteorology*—Lectures, 2 hrs. *Botany*—Laboratory Practice, 5 hrs. *French*—Recitations, 2 hrs.

SECOND TERM :—*Agriculture*—Recitations or Lectures, 2 hrs. *Agricultural Chemistry*—Lectures, 2 hrs. *Physiology*—Recitations and Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *Zoology*—continued, 2 hrs. *Heredity and Stock-Breeding*—Lectures, 2 hrs. during Winter half-term. *Sanitary Science and Public Health*—Lectures, 2 hrs. during Spring half-term. *French*—2 hrs.

(f.) IN NATURAL HISTORY :

Either Mineralogy, Zoology, or Botany, may be made the principal laboratory study, some attention in each case being directed to the other branches of Natural History.

JUNIOR YEAR :

FIRST TERM :—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Fresenius's; Laboratory Practice, 20 hrs.; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. *Botany*—General Morphology and Physiology, 3 hrs.; Laboratory Practice, 3 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Zoology*—Laboratory Practice, 6 to 12 hrs.; Recitations; Excursions (land and marine). *Botany*—Lectures; Laboratory Practice in the identification of Phaenogamous Plants, 2 hrs. *Physiology*—Recitations and Lectures, 2 hrs. *Organic Chemistry*—2 hrs. *Embryology*—Lectures. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs.; Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *Physical Geography*—4 hrs. during Winter half-term. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR :

FIRST TERM:—*Geology*—Recitations, 3 hrs.; Excursions. *Zoology*—Laboratory Practice, 8 to 15 hrs.; Lectures, 2 hrs.; Recitations, 4 hrs.; Excursions. *Botany*—Laboratory Practice in the Preparation and Examination of Microscopical Specimens, illustrative of Stem-Structure and of the Anatomy of the higher Cryptogamous Plants, 5 hrs.; Excursions. *Meteorology*—Lectures, 2 hrs. *French*—2 hrs.

SECOND TERM:—*Geology*—Recitations, 3 hrs. *Anatomy of Vertebrates*—Huxley's, 2 hrs. *Zoology*—Laboratory Practice, 8 to 15 hrs.; Recitations, 4 hrs.; Lectures, 2 hrs. *Botany*—Herbarium Studies, especially in the Cryptogamous Orders; Botanical Literature; Essays in Descriptive Botany. *Sanitary Science, Laws of Heredity, and Principles of Breeding*—Lectures. *French*—2 hrs.

Besides the regular course of recitations and lectures on structural and systematic Zoology and Botany, and on special subjects, students are taught in the laboratories to prepare, arrange, and identify collections, to make dissections, to pursue investigations, and when sufficiently advanced, to describe genera and species in the language of science. For these purposes, large collections in Zoology belonging to the University are available, as are also the private botanical collections of Professor Eaton.

(g.) IN MINERALOGY AND OTHER STUDIES PREPARATORY TO GEOLOGY :

JUNIOR YEAR :

FIRST TERM:—*Qualitative Chemical Analysis*—Recitations, 2 hrs.; Laboratory Practice, 15 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, Laboratory Practice, 4 hrs. *Physical Geography*—2 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM: *Quantitative Chemical Analysis*—Recitations, 2 hrs.; Laboratory Practice, 15 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, Laboratory Practice, 4 hrs.; Lectures in Crystallography and Descriptive Mineralogy, 2 hrs. *Physical Geography*, for which *Botany* is substituted during the latter half of the term—2 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Crystallography*, including the use of the Goniometer and the measurement, drawing, and calculation of Crystals—Lectures or Recitations, 2 hrs.; Laboratory Practice, 15 hrs. *Advanced Course in Descriptive Mineralogy*—Lectures, 1 hr. *Determinative Mineralogy*. *Geology*—Recitations, 3 hrs.; Geological Excursions. *Zoology*—Lectures, 2 hrs. *French*—2 hrs.

SECOND TERM:—*Optical Properties of Crystals* followed by *Petrography*, including the use of the Polarizing Microscope—Recitations, 2 hrs.; Laboratory Practice, 15 hrs. *Descriptive Mineralogy*, continued—1 hr. *Determinative Mineralogy*, continued. *Geology*, continued—3 hrs. *Zoology*, continued—2 hrs. *French*—2 hrs.

Only a limited number will be admitted to this course.

(h.) IN BIOLOGY PREPARATORY TO MEDICAL STUDIES:

JUNIOR YEAR:

FIRST TERM:—*Organic Chemistry*—Lectures and Recitations, 2 hrs. *Qualitative Analysis*—Fresenius's; Laboratory Practice, 15 hrs.; Recitations, 2 hrs. *Mineralogy*—Blowpipe Analysis and Determinative Mineralogy, 4 hrs. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SECOND TERM:—*Comparative Anatomy and General Biology*—Laboratory Practice, 18 hrs; Lectures and Recitations, 1 hr.; *Physiology*—Huxley's; Recitations, 2 hrs. *Embryology*—8 Lectures during the term. *Organic Chemistry*—continued, 2 hrs. *Mineralogy*—continued through Winter half-term, 4 hrs. *Botany*—Laboratory Practice in the identification of Phaenogamous plants, 5 hrs. during Spring half-term; Excursions. *Exercises in English Composition*—1 hr. *French*—3 hrs. *German*—3 hrs.

SENIOR YEAR:

FIRST TERM:—*Physiological Chemistry and Physiology*—Recitations and Lectures, 3 hrs.; Laboratory Practice, 13 hrs. *Organic Chemistry*—Lectures and recitations, 2 hrs. *Zoology*—Lectures, 2 hrs. *Botany*—

Laboratory Practice in the Preparation and Examination of Microscopical Specimens, illustrative of Stem-structure, and of the Anatomy of the higher Cryptogamous Plants, 5 hrs. *Chemical Physiology of Vegetation*—Lectures, 2 hrs. *Geology*—Recitations, 3 hrs. *French*—2 hrs.

SECOND TERM :—*Physiological Chemistry, Physiology, and Experimental Toxicology*—Illustrative Lectures, Recitations, and Laboratory Practice, 27 hrs. *Theoretical Chemistry*—2 hrs. during Winter half-term. *Geology*—Recitations, 3 hrs. *Zoology*—continued, 2 hrs. *Sanitary Science*—Lectures, 2 hrs. during Spring half-term. *Laws of Heredity and Principles of Breeding*—Lectures, 2 hrs. during Winter half-term. *French*—2 hrs.

(i.) IN STUDIES PREPARATORY TO MINING AND METALLURGY :

Young men desiring to become Mining Engineers can pursue the regular Course in Civil or Mechanical Engineering, and at its close can spend a fourth year in the study of Metallurgical Chemistry, Mineralogy, etc.

(j.) IN SELECT STUDIES PREPARATORY TO OTHER HIGHER STUDIES :

JUNIOR YEAR :

FIRST TERM :—*Astronomy*—Recitations, 4 hrs. *English*—Early English, 2 hrs. *Exercises in English Composition*—1 hr. *History*—Myers' Mediæval and Modern History, 3 hrs. *French*—3 hrs. *German*—3 hrs.

SECOND TERM :—*Botany*—Lectures ; Laboratory Practice in the identification of Phaenogamous Plants, 2 hrs. during Spring half-term. *Physical Geography*—4 hrs. during Winter half-term ; Recitations from Guyot and Lectures. *English*—Chaucer, Bacon, Shakespeare, 3 hrs. *History*—Myers' History, continued ; Airy's History of England, 2 hrs. during Winter half-term, 4 hrs. during Spring half-term. *Exercises in English Composition*—1 hr. *German*—3 hrs. *French*—3 hrs.

SENIOR YEAR :

FIRST TERM :—*Geology*—Recitations, 3 hrs. ; Excursions. *English*—Shakespeare, 3 hrs. *Meteorology*—Lectures, 2 hrs. *Political Science*—5 hrs. *French*—2 hrs.

SECOND TERM :—*Geology*—continued, 3 hrs. *Heredity*—Lectures, 2 hrs. during Winter half-term. *Sanitary Science*—Lectures, 2 hrs. during Spring half-term. *Political Economy*—Recitations, Exercises, and Lectures, 5 hrs. during Winter half-term, 4 hrs. during Spring half-term. *English*—Shakespeare, Milton, Dryden, Pope, Gray, and later authors, 4 hrs. during Winter half-term, 3 hrs. during Spring half-term. *French*—2 hrs.

Lectures and instruction in Military Science are annually given to the Senior class by the Professor of Military Science and Tactics.

The following account of the various subjects specified in the above scheme will explain the character and aim of the instruction.

ELEMENTARY CHEMISTRY—The exercises in Elementary Chemistry consist in recitations from a text-book, and experiments by the students in the laboratory to illustrate statements in the book. The object of the laboratory work is to facilitate the study of the subject, and to train the students in manipulation and in the observation of chemical phenomena. Notes are required, and students are questioned on the experiments.

ANALYTICAL CHEMISTRY—*Qualitative and Quantitative*—This study is intended to serve two purposes. Analytical Chemistry is used by the advanced student as a means of investigation in scientific or technical researches. The beginner, however, derives from its study advantages of another kind. The knowledge of the properties of chemical compounds, the familiarity with chemical reactions gained by experience in the laboratory, and the development of the reasoning faculties by the application of this knowledge in analytical processes, enable the student to generalize and classify chemical phenomena, and aid him to understand the more abstract theories of chemical philosophy. The method of instruction adopted conforms to this view of the uses of the study. Text-books are used and recitations are required, but the more important part of both study and instruction is performed in the laboratory. In order to solve the problems which are there constantly presented, the student, aided by books and instructors, must learn both principles and their applications. The student, throughout his course in Analytical Chemistry, spends three consecutive hours in laboratory work during five days of the week. The laboratory, however, is kept

open seven hours daily for the benefit of graduate students and others who desire to devote more time to this study.

Qualitative Analysis forms a part of the courses in Chemistry, Biology, Agriculture, and Natural History. Quantitative Analysis is one of the more important studies of the Senior year in the Chemical Course. It is also included to some extent in the Agricultural Course.

GENERAL AND THEORETICAL CHEMISTRY.—This subject occupies three hours a week during the whole of the Senior Year in the Course in Chemistry. Mendeléeff's "Principles of Chemistry" is used as a text-book, and regular recitation work is supplemented, as occasion demands, by oral instruction. The course is designed to present to the student such a general view of the Science of Chemistry as will enable him to appreciate the investigations which are being carried on at the present time in its various departments, and will also give him a knowledge of the fundamental principles involved in the chemical processes used in the arts.

ORGANIC CHEMISTRY.—The course in Organic Chemistry is a combination of text-book work with experimental lectures. The class has two exercises weekly from the commencement of Junior year to the end of the first term of Senior year. Laboratory work in this department of Chemistry is optional to those who have completed the required work in Analytical Chemistry.

Opportunity is also afforded for the carrying on of original investigations in this subject, either in connection with theses, or as a part of the regular work in the case of advanced students.

PHYSIOLOGY.—Elementary Physiology is taught by text-book recitations and demonstrations, being designed especially for Junior students in the Biological course. In Senior year, particular attention is paid to the physiology of digestion and nutrition in connection with the study of Physiological Chemistry. Opportunity is likewise afforded for experimental work in certain lines of pure Physiology.

PHYSIOLOGICAL CHEMISTRY AND EXPERIMENTAL TOXICOLOGY.—Physiological Chemistry is taught by laboratory exercises, illustrative lectures, and recitations. Each student is provided with a suitable working place in the laboratory, well equipped with all needed apparatus and material. The regular course of work, designed especially for Senior students in the Biological Course, extends through one year and embraces a thorough study of the chemical composition of the various tissues and fluids of the body, together with a study of the chemical and physiological processes of respiration, digestion, secretion, excretion, and nutrition in general.

Beginning with a study of the albuminous bodies, the experimental work extends through the epithelial, connective, contractile, and nerve tissues. Proceeding then to digestion, the various digestive fluids are studied, artificial digestions are made, and the several products of digestive action isolated and studied. The blood and urine are next considered, and students are taught to make both qualitative and quantitative analyses of the latter and to identify abnormal constituents. A portion of one term is also devoted to a study of the chemical reactions of the more important mineral and organic poisons, and their physiological action is determined experimentally. Students are also taught how to separate poisons from organic tissues and fluids, and to identify them, both by chemical and physiological reaction. During the latter half of the second term, Senior year, opportunity is afforded for the carrying on of original investigations on some selected subject in either physiological chemistry or toxicology, in connection with the preparation of graduating theses. This course of work is particularly recommended to students intending to enter upon a course of medical studies.

COMPARATIVE ANATOMY and GENERAL BIOLOGY are taught by laboratory work, lectures, and frequent examinations. The regular course of instruction, intended especially for Juniors in the Biological Course, extends through the second term, and is designed to give the student the mental and manual training in the methods of investigation by which the facts and principles of these sciences have been established, and at the same time to give him a sufficient knowledge of their elements to enable him to pursue with profit the more special studies which follow.

The course begins with the general anatomy of the vertebrate type, in connection with the study of Elementary Physiology. Dissections of the frog and mammal are made under the immediate supervision of the instructor, and the student is required to make careful sketches and records of his work, which is supplemented by demonstrations and informal lectures. Some of the simpler forms of plants and animals are next studied microscopically, the methods of microscopical investigation taught, and the general facts of cell-structure illustrated. The histology of the higher animals is then studied in more detail, microscopical preparations of the principal tissues and organs are made and examined, the general principles of the morphology of the tissues are illustrated, and the student is specially drilled in distinguishing the different tissues under the microscope. Near the end of the term, instruction in embryology, with special reference to human morphology, is given by a short course of lectures and demonstrations.

GEOLOGY—The course in Geology includes recitations and oral instruction, extending through the entire year on alternate days. During the first half-year, the recitations are attended by the entire Senior Class, except those in the course in Mechanical Engineering. This part of the course includes Physical, Lithological, and Dynamical Geology. These subjects are illustrated by diagrams and specimens.

The last half of the year is devoted to Historical Geology and Palaeontology. This part of the course is pursued by all the Seniors except those in the courses in Mechanical and Civil Engineering. Suitable collections of fossils are used to illustrate the subject.

Opportunities are afforded for optional geological excursions during the warmer months.

MINERALOGY—The instruction in Mineralogy is carried on by means of practical work in a laboratory especially fitted up for the purpose, and is intended to familiarize the student with the common minerals, attention being devoted especially to those which are of economic, geological, or scientific importance. To understand better the chemistry of the subject, the student is first made familiar with the simple chemical and blowpipe reactions useful in testing minerals, and applies this knowledge later to the determination of unknown species. The students have access to a labeled collection, where they can study the properties of the minerals and make comparisons, and also to extensive unlabeled collections, arranged especially to give them practice and facility in the correct identification of minerals. In addition to the laboratory work, instruction is given in Crystallography, illustrated by a collection of models and natural crystals. The lectures in Descriptive Mineralogy to the more advanced students are illustrated by means of the extensive private collection of Professor Brush. The laboratory is provided with apparatus for the thorough chemical and physical investigation of minerals and with an extensive library to which students have access. The laboratory is open seven hours each day to accommodate any who desire to devote more time to the subject than is laid out in any of the prescribed courses.

LITHOLOGY—Elementary lectures with special application to economic uses and properties of rocks. For more advanced work see under courses of Graduate instruction.

ZOOLOGY—The instruction in Zoology includes a course of lectures on Systematic Zoology, Morphology, and Embryology. These lectures are generally given twice a week, and continue during about half the year. The students are required to keep careful notes of the lectures.

Students in the Natural History Course are also required to pursue a course of laboratory instruction during the second term of the Junior and all of the Senior year. This generally occupies from two to four hours a day on four days of each week. It includes dissections of various classes and orders of animals, with microscopic studies of the finer structures and of minute animal forms, as well as work in Systematic Zoology.

Special courses of recitations or lectures on particular subjects are also given when desirable.

BOTANY—During Junior year botanical instruction is restricted to the sections in Biology, Natural History, Agriculture, and Selected Studies, and is intended to enable the student to recognize the chief natural orders of native plants, with the ability to identify the common species. The class meets two or three times a week in spring and summer, and is practiced in identifying plants, using Gray's Manual as a standard, and employing the ordinary simple dissecting microscope. At this point the instruction for the Select Course ceases; in the next fall term the work for the courses in Biology, Natural History, and Agriculture is entirely practical, books being used only for reference. Students begin with cutting thin sections of some common woody and herbaceous stems, and are shown how to prepare such sections for examination and for permanent preservation as microscopic objects. After acquiring some facility in microscopic manipulation, various parts of flowering plants are brought in for dissection and examination, and towards the close of the term some attention is given to ferns, mosses, and algae. This finishes the course for ordinary students; for those who may desire to prosecute the science professionally, the work is arranged to suit individual requirements, whether it be in the direction of Morphology, Physiology, or Systematic Botany as applied to either flowering plants, or the cryptogamous orders.

THE CHEMICAL PHYSIOLOGY OF VEGETATION, with special reference to the Composition, Vital Processes, and Uses of commonly cultivated Plants, is the subject of a course of Lectures (two weekly) during the Fall Term.

This course is preliminary to Lectures on "Agricultural Chemistry." Attendance is required of Seniors in Agriculture, Chemistry, and Biology.

AGRICULTURE—The special instruction in the science of Agriculture is by recitations and lectures, with such aids and appliances as are suited to the class-room and laboratory. Besides Analytical and Agri-

cultural Chemistry, it includes a discussion of the cultivation of the staple field crops of the country; theories of rural economy and systems of husbandry; the laws of heredity, and principles of stock-breeding; Botany, Mycology and the diseases of plants, and Zoology. Opportunity is afforded also for the study of insects injurious to crops, the elements of Veterinary Science, and Bacteriology.

AGRICULTURAL CHEMISTRY—Lectures are given during the second term on the Atmosphere, Water, and the Soil as related to Agriculture, Crop Production, the Theory and Practice of Tillage and the use of Fertilizers, and the Chemistry of the Dairy and of Cattle Feeding.

SANITARY SCIENCE—The lectures on this subject discuss the natural laws which govern the public health; their relation to the social habits and condition of communities; instruction in the use of mortuary statistics; the germ-theory of disease and theory of disinfectants; epidemics and pestilence, with their relations to the prosperity of a community, and methods of control; the hygiene of private dwellings and public buildings; the relations of the water-supply to public health; sewerage; legislation relating to public health and methods of official sanitary administration.

MATHEMATICS—The Mathematical studies of the Freshman year are pursued by all members of the class; those of the Junior year, by students in the course of Engineering and properly qualified Special Students who may choose them.

PHYSICS—The object of the experimental lectures is not only to elucidate the subjects treated in the text-books employed, but also to extend the treatment of such subjects, and to introduce others where thought desirable. A considerable portion of the work of the year is the preparation for recitation on matter thus presented.

The facilities of the Physical Laboratory are extended to such graduate students and Seniors as may desire them.

Course in Advanced Physics—A course of two lectures per week, beginning in January, is supplemented by laboratory work. The earlier portion of the time is devoted to the theory of observation and the method of least squares. The course is optional to all who have a command of the Calculus.

MILITARY SCIENCE AND TACTICS—Instruction in this course is obligatory upon the whole Senior class in all departments. The work is carried on chiefly by lectures, upon which satisfactory notes must be submitted. Such topics as the following are discussed: military economy;

the American military problem; organization and reorganization; modern war on field and map; statistics and logistics; the combined use of "the three arms;" strategy and campaigning; orders of battle and grand tactics; special operations of war and field service; minor tactics and the art of war; use of cavalry in campaign and battle; use of artillery; use of infantry, and the Turko-Russian war. The course will terminate with an examination, and a special military certificate is awarded, by the Regular Army officer in charge of the department, to such students as attain a sufficient degree of proficiency, and give evidence of military aptitude. In connection with this course a brief original paper is required.

When a sufficient number of students desire it, practical instruction in drill in the School of the Soldier and School of the Company will be given. The names of the three most distinguished students in this department must be sent to the Adjutant General of the Army for publication in the Army Register, and also be sent to the Adjutant General of the State to which each student belongs.

CIVIL ENGINEERING—The object of this course is to give, first of all, a thorough preparation in the principles of the various sciences involved, and afterwards, as extensive practice in the application of these principles as the time at disposal, the ability of the students, and the facilities and plant permit.

Under the first head are included such subjects as Mathematics, Physics, Mechanics, Thermodynamics, Astronomy, Geology, Mineralogy, Chemistry, and Botany; and under the second head, Drawing, Surveying, Strength and Properties of Materials, and Design and Construction of various kinds, such as Bridges, Roofs, Foundations, Arches, Retaining Walls, Dams, Water Works, Railroads, Improvement of Rivers and Harbors, Sewerage and Drainage, Water Motors, etc.

The first division includes Civil Engineering as a Science, the other, Civil Engineering as an Art. The ground covered by the first is definite, and the instruction is made as thorough as possible. The ground covered by the second is of almost indefinite extent. Here, by a careful selection of practical examples, such as occur in engineering practice, the application of principles is illustrated, and together with the analytical or algebraic methods, the student is also instructed in practical graphic solutions, wherever such solutions present a special value. Much time is devoted to geodetic operations and to surveying in the field. Instruction is given in the practical operations connected with the reconnaissance, location, and surveys of roads, canals, and railroads, such as setting out, cross-sectioning, setting grade stakes, calculation of earthwork, etc. The practical instruction in the Field

Work of the Senior year takes place in September, not less than three weeks before the beginning of the Fall Term. This instruction for the year 1894 begins Monday, September 3d. Thorough instruction is also given in drawing and design, the construction of working-drawings, and principles of designing as applied to bridges, roofs, etc.

The method of teaching is by means of practical exercises, lectures, and recitations, so combined as to develop as far as possible the mental powers of the student. Visits of inspection are made at suitable intervals to private and public works of engineering interest.

The entire course requires five years, three years of undergraduate and two of graduate instruction; and a thesis of merit upon some approved subject, accompanied by designs and estimates, is required upon the completion of the course, as also at the end of the first three years. Examinations are also held at the end of every term and year.

In what follows, such details are given as may be of interest to those who contemplate taking the course.

Mathematics—6 hours weekly, Junior year, both terms. See Synopsis of course.

French and German—Students in this course take in the Junior year the regular studies of the Junior class in both German and French. French is continued to the end of Senior year.

Drawing and Descriptive Geometry—Drawing is begun at once in the first term of Freshman year, under the charge of the Professor of Drawing in the Art School, and includes practice in free-hand drawing. In the second term, under the Instructor in Instrumental Drawing, the students take isometric drawing with application to drawing from models and structures by measurements, shading, tinting, conventional use of colors, principles of orthographic projections, and practice in making simple working-drawings, 4 hours both terms.

The Drawing of Junior year, 3 hours both terms, includes Descriptive Geometry, the drawing of structures from measurement, and elements of design for simple structures. The instruction is by recitations, lectures, practical exercises, and models, and is under the charge of the Instructor in Instrumental Drawing and the Professor and Instructor in Civil Engineering. Included in the work of this year is also the mapping of surveying field-notes.

In Senior year, the drawing consists of the mapping of the surveys, of that year, and the designing of structures and finished drawings, designs, and estimates, under the charge of the Professor and Instructor in Civil Engineering, 6 hours both terms.

Surveying and Field Engineering—The instruction in the field occupies about 20 hours for six or more weeks in both terms of Junior and Senior years. The exercises at these times are so arranged as to secure as much consecutive time as possible in the field. The work of the

Junior year includes the use and adjustment of instruments; practice surveys; recitations and lectures upon surveying operations and methods of keeping field-notes. Levels are run, surveys made, plotted, and checked; blue-print copies of drawings made, the use of compass, level, and transit acquired. In the second term of Junior year, land and topographical surveys are made and railroad curves run.

In the three weeks before the beginning of the first term of Senior year, a line of railroad is located and set out from a contour map previously obtained, grades and curves established and set out, and computations made. The theory of economic location is taught by lectures and recitations in connection with the field-work. The work is arranged so that each student has sufficient practice in all the various operations. The text-books used are Gillespie and Johnson's works, Henck's Field Book, Gore's Elements of Geodesy, and Merri-man's Theory of Least Squares. The course is under the charge of the Professor and Instructor in Civil Engineering, aided by several assistants.

Mechanics of Engineering—Senior year, 6 to 8 hours, both terms. The method of instruction is by means of text-books in connection with lectures and solutions of practical problems in illustration of the various topics. The course includes thorough instruction in the strength of materials, the stability of foundations, retaining walls, dams and embankments and masonry arches, by lectures and graphic methods. Questions of hydraulics, water-supply, the measurement of discharge, and the theory and construction of water-motors receive attention. A course in Thermodynamics with application to air and steam engines is also included.

Construction and Design—Senior year, 6 hours both terms. A thorough course is given in the determination of stresses and the detailed design of roofs, bridges, etc., with working-drawings, specifications, and estimates. Visits of inspection are made, and recitations and lectures held in connection with the work in the drawing room.

Astronomy—This course occupies 6 hours during the second term of Senior year, and includes practical work and the use of the sextant and transit in determining time, latitude, and azimuth.

Geology—This course occupies 3 hours up to the middle of the second term of Senior year.

Mineralogy—This course, under the Professor of Mineralogy, occupies three hours up to the middle of the second term in Senior year.

A course of lectures on the theory of electricity and its applications, by the Professor of Physics, is open to students in this department, and can be taken as a part of the preparation for a graduate course in the higher branches of electrical science.

MILITARY ENGINEERING—The object aimed at is to disseminate military information, and to awaken interest in the application of the arts of peace to those of possible war. In connection with the courses of Civil Engineering and Military science, lectures will be given upon such topics as : systems of fortification ; sea-coast defenses ; hasty intrenchments ; passage of rivers and military bridges ; military reconnaissance, and instruments ; battlefield telemetry and methods ; sea-coast range-finding, and ship-tracking devices ; gunpowder and ballistic machines ; high explosives and demolitions ; gun metals, modern ordnance and gunnery ; armor plates, turrets, projectiles, and fuses, torpedoes, submarine mines, military electric installation, and countermining.

MECHANICAL ENGINEERING—The objects aimed at in the plan of instruction in this course are, to give to the student a thorough training in elementary and advanced Mathematics and Physics, and their application to the science of Construction ; to make him familiar with the general principles of Engineering and with the practical details of mechanical construction through which these principles are made useful ; and to enable him ultimately, in beginning the work of his profession, to bring to bear upon it a well balanced store of theoretical and practical knowledge, and a mind trained in correct habits of thought and work.

The complete course covers five years, three of which are spent in undergraduate study, and two in a graduate course, a portion of which may be given to actual practical work. The subjects and methods of instruction in the undergraduate course are as follows :—

Mathematics—See synopsis, page 110.

French and German—Students take in the Junior year the regular studies of the Junior class in both French and German. French is continued to the end of Senior year.

Surveying—A short course in Surveying comprises lectures on methods of surveying and the construction and use of instruments, also practice in field work in the use of the level and transit, city surveying, establishing grades, and laying out buildings.

Shop-Visiting divides the time equally with Drawing in the Junior year until the spring recess. The student, accompanied by the instructor, is employed in studying machinery in use and in process of construction in different machine-shops in the city. He is required to make satisfactory, carefully dimensioned sketches, from measurements taken by himself, of the complete machines and their parts, and to describe the tools and mechanical operations used in producing the simpler pieces.

Drawing—Descriptive Geometry is taught in the drawing room by lectures and recitations, and by exercises at the drawing board, where

the problems are solved graphically by the student. Instruction in drawing Machine Elements is given in the Junior year. Models and cartoons showing examples of approved practice are used by the instructor, who also gives personal attention to each student's work at the board as it progresses.

Principles of Mechanism—This is a course in theoretical and applied Kinematics. Instruction is by text-books and lectures, illustrated by diagrams and models, an extensive collection of which belongs to the School and is accessible to the student.

Steam Engine—Recitations and lectures in this subject begin in the Junior year, after the spring recess. They relate to the structural details of engines and to the mechanical principles involved in their working. The subject is continued in the first term of Senior year, when particular attention is directed to various kinds of valve-gear, the governor, the fly-wheel, balancing, and the effect of the weight of the reciprocating parts. In the second term of Senior year, the study of steam boilers takes the place of that of engines.

Indicator Practice—In the Senior year, the student is afforded opportunities to apply the indicator to various engines in operation, and has practice in reading indicator cards and measuring them by the planimeter. He is taught to detect such defects in the engine as are shown by the cards.

Applied Mechanics—In this course lectures, recitations, and exercises in the solution of practical problems, relate to the topics specified under this head in the scheme on page III.

Thermodynamics—Recitations and lectures on the mechanical theory of heat and its application to hot-air engines, gas engines, and the steam engine.

Machine Design—The course in this subject consists chiefly in practical exercises at the drawing board, and partly in lectures on the functions of machines and the mechanical principles which are applied in determining the proportions of machinery. The student, under the guidance of an experienced instructor, is employed in making complete working-drawings of machines, many examples of which are in the drawing rooms and the basements of the school. He does not copy the examples, but is required to change the dimensions and in many cases to alter the design, and is ultimately taught to make partly new designs of important machinery, such as cranes, yacht engines, machine tools, boilers, etc. The discipline the student receives is such as he would obtain in the drawing office of an engineering establishment, while he is also carefully instructed in the theory of the subject he deals with, and in the practical bearing of all his work.

In the Senior year, several excursions are made by the class, accompanied by one or more instructors, to neighboring manufacturing and

engineering centers where large manufactories, pumping works, ocean steamers, etc., are visited. Full notes must be taken, and a satisfactory written report upon the machinery examined is required.

Thesis—Before graduating, the student must present a satisfactory thesis on some subject approved by the professor in charge of the department of Mechanical Engineering.

A course of lectures on the theory of Electricity and its applications is open to students in this department, and these lectures can be taken as a part of the preparation for a graduate course in the higher branches of electrical science.

ASTRONOMY—Students in the Select Course receive instruction in Astronomy four hours per week during the first term of Junior year.

Students of Civil Engineering during the second term of their Senior year have six recitations per week, and also practical experience in the determination of time, azimuth, latitude, longitude, etc.

ENGLISH—The course is designed to give the student acquaintance with the great representative writers of the various epochs. A history of the language is one of the studies of the Freshman year; and after that year the study of the language is made entirely subordinate to that of the literature. During the first term of Junior year, however, extracts from Early English authors are read, and Early English Grammar is studied, so as to familiarize the student with the inflections then in use and the distinctions existing between the leading dialects. It is the aim of this term's work to give such knowledge of forms, and to some extent of words, that the student will be able to read at sight any Early English author whose writings do not involve special difficulties of language or vocabulary.

With the second term, the regular study of English literature proper begins with Chaucer; and for the rest of the course till the end of Senior year the following authors are read: Bacon, Shakespeare, Milton, Dryden, Pope, Gray, Goldsmith, and later writers. Those mentioned in the lists are always studied, but other authors not named are also taken up, the course varying somewhat in different years. In all cases, complete works of a writer are studied, not extracts; as, for instance, several of Chaucer's Tales, and several of the plays of Shakespeare. The authors are taken up in chronological order, and the literary history of the time is likewise carried on in connection with the great representative writers of each period.

ENGLISH COMPOSITION—This course, required of the entire Junior class, consists of weekly exercises based on selections from the writings of well-known authors, such as Irving, DeQuincey, and Macaulay.

While it intends in the first place to give freedom of expression and the correction of the most obvious faults by practice in writing rapidly the substance of a passage previously assigned, it also aims to direct the attention of the student to qualities of style and methods of composition, to arouse his appreciative interest in the works as literature, and to improve the quality of his writing by improving the quality of his thought. To this end occasional discussions of the selections read will occupy a part of the weekly hour.

GERMAN—The aim in this department is to give such a knowledge of facts and principles as shall qualify the student as rapidly as possible to use the language for those various purposes which his special needs may require, and particularly to facilitate the use of German treatises in his later special studies. To accomplish this, the course consists of the combination of the study of systematic German grammar with a complementary and progressive course of written and oral translation from English into German, the latter being designed for the double purpose of increasing the command of grammatical principles, and through the establishment of a habit of ready and accurate expression, of laying the foundation for future colloquial use of the language. In connection with the foregoing, it is attempted to introduce the student to as many different styles and as many forms of composition as the time allows. For this purpose the reading matter is in general selected from readers and collections prepared for the use of schools in Germany, and characterized by the number and variety of their extracts, thus enabling the instructor to select pieces that illustrate one another and to avoid similar lines of reading with successive classes. Special attention is paid during a portion of the course to English affinities, to analogies in the formation of English and German abstract terms, to the commoner rhetorical resemblances and differences, to the details of arrangement in German sentences, and the development of secondary from primary significations of words.

The subjects of derivation and composition are also systematically studied, both with reference to their practical bearing on the acquisition of a vocabulary, and their scientific value in illustrating the growth of language.

In view of the shortness of the course there is no attempt to secure any considerable acquaintance with German literature. A body of representative pieces of lyric poetry, however, is made the basis of careful literary study, with special attention to poetic diction and variety of metrical form. Memorizing German poems is practiced to some extent as a class exercise, as also retranslation of dictated literal versions of simple pieces into German verse, in accordance with prescribed rhythm and sequence of rhyme.

At the beginning of the Junior year an advanced division is organized, which is thus enabled to read a much larger amount of matter and to pursue more critical methods. The attention of this division is sometimes given for a few months to extracts treating of leading events in German history, with a collateral course of German historical poetry, the selections being made so as to be mutually illustrative. Historical poems not contained in the text-books are often furnished by dictation.

During the last few weeks of the course, there is an attempt to initiate the student into the art of rapid and intelligent, though uncritical reading, dispensing largely with dictionary and grammar and aiming to form independent habits of observation and induction. For this purpose recourse is had to entertaining novels.

In general, it is the endeavor, while aiming primarily and constantly at acquiring a working knowledge of contemporary German, to combine habitually scientific and empirical methods, to enforce correct notions as to the nature of language, to secure incidentally some of the most important disciplinary results of elementary linguistic study, and to give some conception, by suggestive questions and occasional statements, of the various special directions which a more extended and advanced course would necessarily take.

The time allotted to the subject is three hours a week during the Freshman and Junior years.

Regular text-books : Whitney's German Grammar ; Whitney's German Dictionary ; Ahn's Exercises, or Eysenbach's German Exercises.

FRENCH—The aim of the study in this department of modern languages is to give a fluency in reading which will enable the student to master the modern writers with comparative ease, and a speaking acquaintance as great as is possible in the time allotted. Speed is not the only end aimed at. No place is given to the superficial system which results in the student's possessing a smattering of French phrases and a few idioms, to the exclusion and sacrifice of any real grasp of the subject. It is considered that thoroughness of work, and the training of the powers of thought, as well as those of memory, are as much requisites in this branch of education as in any other. The beginning of the course is devoted to grammatical grounding and correctness of pronunciation, and the first term of each year is spent in learning and reviewing the grammar. On this basis, by means of easy conversational exercises, the student is expected and encouraged to frame sentences, deriving his vocabulary from the exercises and books he is reading in the class. A certain portion of the course is given to French composition and the construction of the sentence. Simple prose is then taken up, followed by the more advanced forms. From

the start the subject of the history and evolution of the language is begun. Great emphasis is laid on the etymology, the various changes of form, and a more thorough study of the syntactical theory, as the course proceeds. Special stress is thus laid on the scientific side of the language, its historical development, the relations of French and Latin, and the laws of derivation. As far as is possible without interfering with the value of the recitations, short descriptions are given of the social conditions of past and present French life, and of the state of modern politics, constant reference being made to the intimate connection of literature and history.* Lectures are given treating critically of the growth of French literature, particular attention being paid to the authors read in the class-room, the masterpieces of the classical and later periods being treated separately and comparatively. A different cycle of texts is used from year to year, so that only a general outline of the works read can be stated. As far as possible, specimens of the best prose and poetry will be included; the classical and contemporary drama; Corneille, Racine, Molière, George Sand, the Romantic School, Daudet, and the lighter plays of the modern French stage, are used; and the beauties of style, the spirit of the language, and the idiomatic expressions are pointed out.

The later part of the course treats of the following topics :

I. The History of the Language, based on Brachet, Brunot, and Clédat, with references to Ampère, Littré, and Pellissier.

II. The Rise and Development of the Drama, with discussion of its French Form.

III. The Classical Period.

IV. A General Survey of French Literature (by text-book).

Opportunities for special work or for advanced courses in reading will be furnished, should occasion arise.

HISTORY—The greater part of the work is carried on by means of recitations. Myers' *Mediaeval and Modern History* and Osmond Airy's *Text-book of English History* are used as text-books. Both oral and written recitations are employed, and frequent lectures are given on different questions of interest and importance. Bi-weekly or monthly tests are given as the importance of the subject matter may warrant.

In the *Mediaeval Period* special attention is given to the growth of civilization and to the development of the religious, intellectual, political, and economic forces which culminated in the Reformation and ushered in the *Modern Period*.

In *Modern History* special study is given to the political history of Europe as an introductory study to the present European situation.

That portion of English History is studied which is most intimately connected with United States History, the causes which led to the separation of the two countries being specially discussed.

The students are encouraged to pursue independent courses of reading, and references are given to works in the University Library. There is also a small historical library in the recitation-room from which the students may draw books. Constant use is made of historical maps in connection with recitations and lectures.

POLITICAL SCIENCE—The course in history serves as a preparation for the course in Political Science. The subject is treated historically and comparatively, Professor Woodrow Wilson's "The State" being used as a text-book. The object constantly kept in view is to lead the student through the study of other forms of government to a broad and intelligent knowledge of the Constitution of the United States.

POLITICAL ECONOMY—In the beginning of the course, an effort is made to familiarize the students with the fundamental principles of Economics, and more particularly to train them in economic reasoning. More difficult problems are then taken up and discussed, and special topics are assigned to the class for investigation. A small library, containing a number of copies of each of the principal authorities, has been provided, in order that the students may be able to familiarize themselves somewhat with the literature of the subject, without expense to themselves. The instruction is given partly by means of text-books and partly by lectures.

THE TERMS AND VACATIONS correspond with those of the College. (See Calendar, p. 6.)

EXPENSES—THE TREASURER'S BILLS are made out and delivered to the students three times a year, viz: at the beginning of each term or half-term, at which time they are payable. Drafts on Boston, New York, and Philadelphia are received at par. The annual charge for tuition for undergraduate students is \$150. An additional charge of \$5 for each term or half-term is made for incidentals, including the use of libraries, public rooms, gymnasium, and reading room. The student in the Chemical and Biological Courses has an additional charge of \$15 per term, or half-term, for chemicals and the use of apparatus in the chemical laboratories. He also supplies himself

at his own expense with flasks, crucibles, etc., the cost of which should not exceed \$10 a term.

For graduate students the charge for tuition is one hundred dollars per year.

THE FEE FOR GRADUATION in the case of BACHELORS OF PHILOSOPHY is ten dollars, unless the person taking the degree is also a graduate of the College, when the fee is but five dollars.

LIBRARIES AND READING ROOMS

The Library of the University, containing over 165,000 volumes, is open every week-day to students for consultation and for the drawing of books; in a separate part of the building is the Linonian and Brothers Library, a collection of over 30,000 volumes in general literature, specially selected for the use of undergraduate students.

The College Reading Room, containing the principal newspapers and periodicals, American and foreign, is open to the students every day and evening. There is also a reading room and a select library (partly for circulation and partly for reference) in Dwight Hall.

The special technical library of the Scientific School consists of about five thousand volumes, including the Hillhouse Mathematical Library.

There is also a special chemical library, in which the principal chemical journals and periodicals, both of this country and of Europe, may be found; and a small library of History and Political Science is located in one of the class-rooms for the convenience of students pursuing these subjects.

GYMNASIUM

THE UNIVERSITY GYMNASIUM is designed to provide all the students with opportunities for exercise, under the advice of a Director, who is a regularly educated physician, and any student may enter the class of general

gymnastics, under the Director's immediate care. The building contains: a complete Turkish bath, marble swimming pool, marble tubs, bowling alleys, rowing-tanks, free showers, separate rooms for boxing, fencing, wrestling, and manly sports, a locker room, and the main exercise-hall, which offers a clear floor-space of 10,000 square feet, and is from 22 to 56 feet in height. A thorough physical examination and measurement of each student is made yearly by the Director, and a record of these results is kept as a basis of advice as to exercise and regimen; an examination of this record shows that the standard of health of the average student improves during his course.

DINING HALL

THE YALE DINING HALL, adjacent to the College square, is under the direct control of the University and furnishes board at cost (approximating \$4.00 per week). The Hall contains seats for 450, and is open to students of the Academic and Scientific Departments.

SCHOLARSHIPS

STATE SCHOLARSHIPS—By an Act passed in 1863, the General Assembly of Connecticut established certain scholarships from the income of the fund derived from the National Grant of July, 1862. For some years past there have been twenty-five of these scholarships (the number depending upon the income of the fund), designed to aid by free tuition young men fitting themselves more especially for pursuits in agriculture, manufacturing, and engineering. An Act of Congress, approved August 30, 1890, entitled "*An act to apply a portion of the proceeds of the public lands to the more complete endowment and support of the Colleges for the benefit of Agriculture and the Mechanical Arts established under the provisions of an Act of Congress approved July 2, 1862,*" permitted these scholarships to be increased for the year 1892-1893 to eighty-two. An Act of the

General Assembly of Connecticut, however, passed in 1893, provided that the Federal grant should be devoted to another purpose, and the award of scholarships for 1894 is therefore contingent upon judicial decision.

The applicants must be citizens of Connecticut. The appointing board consists of the Board of State Visitors (see p. 101) and the Secretary of the School; it meets on the Tuesday before Commencement, to fill the vacancies for the next University year.

THE HOLMES SCHOLARSHIP, founded by Samuel Holmes, Esq., amounts to fifty dollars per year. The recipient must be a citizen of Middlebury, Prospect, Waterbury, or Wolcott, Connecticut; the appointments are made by the Board of Agents of the Bronson Library in Waterbury.

DEGREES

THE DEGREE OF BACHELOR OF PHILOSOPHY is conferred on those who have completed one of the three-year courses, and have passed the examination at its close.

CIVIL ENGINEER AND MECHANICAL ENGINEER—see page 140.

DOCTOR OF PHILOSOPHY—see page 139.

COURSES OF GRADUATE INSTRUCTION

FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
JAMES D. DANA, PH.D., LL.D., *Professor of Geology and Mineralogy*
REV. JAMES M. HOPPIN, D.D., *Professor of the History of Art*
EDWARD J. PHELPS, LL.D., *Professor of Law*
WILLIAM D. WHITNEY, PH.D., LL.D., *Professor of Sanskrit and Comparative Philology*
GUSTAVE J. STOECKEL, MUS.D., *Professor of Music*
HUBERT A. NEWTON, LL.D., *Secretary, and Professor of Mathematics*
GEORGE J. BRUSH, LL.D., *Professor of Mineralogy*
SAMUEL W. JOHNSON, M.A., *Professor of Theoretical and Analytical Chemistry*
WILLIAM H. BREWER, PH.D., *Professor of Agriculture*
JOHN E. CLARK, M.A., *Professor of Mathematics*
DANIEL C. EATON, M.A., *Professor of Botany*
ARTHUR M. WHEELER, M.A., *Professor of History*
JOHN F. WEIR, N.A., M.A., *Professor of Painting and Design*
ADDISON VAN NAME, M.A., *Instructor in Japanese*
J. WILLARD GIBBS, PH.D., LL.D., *Professor of Mathematical Physics*
CHARLES B. RICHARDS, M.A., *Professor of Mechanical Engineering*
ARTHUR W. WRIGHT, PH.D., *Professor of Experimental Physics*
THOMAS R. LOUNSBURY, LL.D., *Professor of English*
OTHNIEL C. MARSH, PH.D., LL.D., *Professor of Palaeontology*
EUGENE L. RICHARDS, M.A., *Professor of Mathematics*
JOHN H. NIEMEYER, M.A., *Professor of Drawing*
TRACY PECK, M.A., *Professor of Latin*
ADDISON E. VERRILL, M.A., *Professor of Zoology*
WILLIAM G. SUMNER, LL.D., *Professor of Political and Social Science*
REV. GEORGE T. LADD, D.D., *Professor of Philosophy*
CHARLES H. SMITH, M.A., *Professor of American History*
JULES LUQUIENS, PH.D., *Professor of Modern Languages*
SIDNEY I. SMITH, M.A., *Professor of Comparative Anatomy*
WILLIAM G. MIXTER, M.A., *Professor of Chemistry*
HENRY P. WRIGHT, PH.D., *Professor of Latin*
HENRY S. WILLIAMS, PH.D., *Professor of Geology*
HENRY A. BEERS, M.A., *Professor of English Literature*
A. JAY DUBOIS, PH.D., *Professor of Civil Engineering*
BERNADOTTE PERRIN, PH.D., LL.D., *Professor of Greek*

EDWARD S. DANA, PH.D., *Professor of Physics*
THOMAS D. SEYMOUR, M.A., *Professor of Greek*
CHARLES S. HASTINGS, PH.D., *Professor of Physics*
FRANK A. GOOCH, PH.D., *Professor of Chemistry*
ALBERT S. COOK, PH.D., L.H.D., *Professor of English*
ANDREW W. PHILLIPS, PH.D., *Professor of Mathematics*
GEORGE B. ADAMS, PH.D., *Professor of History*
HENRY W. FARNAM, R.P.D., *Professor of Political Economy*
EDWARD P. MORRIS, M.A., *Professor of Latin*
RUSSELL H. CHITTENDEN, PH.D., *Professor of Physiological Chemistry*
ARTHUR T. HADLEY, M.A., *Professor of Political Economy, and Dean*
SAMUEL L. PENFIELD, PH.B., *Professor of Mineralogy*
HORACE L. WELLS, PH.B., *Professor of Analytical Chemistry and Metallurgy*
THOMAS D. GOODELL, PH.D., *Professor of Greek*
ARTHUR H. PALMER, M.A., *Professor of German*
HORATIO M. REYNOLDS, B.A., *Professor of Greek*

OTHER INSTRUCTORS

REV. SAMUEL HARRIS, D.D., LL.D., *Professor of Systematic Theology*
REV. GEORGE P. FISHER, D.D., LL.D., *Professor of Ecclesiastical History*
WILLIAM C. ROBINSON, LL.D., *Professor of Law*
REV. CORNELIUS L. KITCHEL, M.A., *Instructor in Greek*
JOHN P. C. FOSTER, M.D., *Instructor in Anatomy*
WILLIAM BEEBE, B.A., *Assistant Professor of Mathematics and Astronomy*
REV. EDWARD L. CURTIS, PH.D., D.D., *Professor of Hebrew*
HENRY R. LANG, PH.D., *Assistant Professor of the Romance Languages*
EDWARD B. CLAPP, PH.D., *Assistant Professor of Greek*
CHARLES E. BEECHER, PH.D., *Assistant Professor of Palaeontology*
FREDERICK WELLS WILLIAMS, B.A., *Instructor in History*
FRANK P. GOODRICH, PH.D., *Instructor in German*
JAY W. SEAVER, M.D., *Associate Director of the Gymnasium*
EDWARD V. RAYNOLDS, D.C.L., *Lecturer on Constitutional Law*
GEORGE M. DUNCAN, M.A., *Assistant Professor of Philosophy*
E. HERSHEY SNEATH, PH.D., *Assistant Professor of Philosophy*
LOUIS V. PIRSSON, PH.B., *Instructor in Geology and Lithology*
FRANK K. SANDERS, PH.D., *Assistant Professor of Biblical Literature*
WILLIAM G. ANDERSON, M.D., *Instructor in Gymnastics*
GUSTAVE F. GRUENER, B.A., *Assistant Professor of German*
EDWARD W. SCRIPTURE, PH.D., *Instructor in Experimental Psychology*
JUDSON S. DUTCHER, B.A., *Tutor in Mathematics*
JOHN C. SCHWAB, PH.D., *Assistant Professor of Political Science*

A. GUYOT CAMERON, PH.D., *Assistant Professor of French*
REV. ARTHUR FAIRBANKS, PH.D., *Instructor in Christian Ethics*
CARLETON L. BROWNSON, B.A., *Tutor in Greek*
WILLIAM A. SETCHELL, PH.D., *Instructor in Biology*
HANNS OERTEL, PH.D., *Instructor in German and Comparative Philology*
EDWARD F. BUCHNER, PH.D., *Lecturer on Pedagogy*
REV. HARLAN CREELMAN, B.D., *Assistant in Semitic Languages*
CHARLES B. BLISS, PH.D., *Lecturer on Psychophysics*

THE INSTRUCTION OF GRADUATES, independently of the courses of study provided in the professional schools, had been attempted in an informal way before 1847, when such courses were definitely arranged, and the Department of Philosophy and the Arts constituted, with this object in view. The degrees of Doctor of Philosophy and Civil Engineer were first offered in 1860, the degree of Dynamical or Mechanical Engineer in 1873, and that of Master of Arts (previously given without evidence of study) in 1874.

Graduates of this and other Colleges and Universities, and (in exceptional cases, by special permission) other persons of liberal education, who are at least eighteen years old, are received as students for longer or shorter periods, with or without reference to the attainment of a degree.

The attention of teachers who desire to fit themselves more thoroughly for a higher grade of professional work is called to the advantages offered by this Department for pedagogical instruction and discipline. In addition to the special and advanced study of the subjects in which the graduate student desires instruction, and the pursuit of courses in psychology, ethics, philosophy, and of other courses cognate with pedagogy, opportunity will be afforded to observe the actual practice in the class-room of expert and successful instructors, as well as the organization of the different departments of the University and their methods of work.

Instruction is given partly by lectures, partly by recitations and by oral and written discussions, partly by direct-

ing courses of reading, and partly by work in the laboratories and with instruments. There are also various voluntary associations, in which instructors and students meet together periodically for the reading of papers, oral discussions, etc.; such are, the Classical Club, the Mathematical Club, the Political Science Club, the Philosophical Club, and the Modern Language Club.

The Graduate Association is open to all members of the Graduate Department. Meetings are held fortnightly. Usually an informal address is given by some member of the Faculty. The remainder of the evening is devoted to cultivating the mutual acquaintance of the members—this being the principal purpose of the organization. Papers are not expected of the members.

Graduate students of this University, with the approval of the classical instructors, are admitted to the free enjoyment of the privileges of the American School of Classical Studies, at Athens.

The terms and vacations correspond with those in the Undergraduate Departments. (See Calendar, page 6.)

The fee for instruction is generally one hundred dollars; but it may be more, or less, according to the courses pursued and the amount of instruction received.

All graduate students who are not regularly enrolled in any other Department of the University, are required to register their names at the Treasurer's office at the beginning of each year of study.

Students have the free use of the Library of the University (including the Linonian and Brothers Library), and are admitted to the College Reading Room on payment of an annual fee of two dollars. The University Library contains over 165,000 volumes, and many thousands of unbound pamphlets. Of current periodical publications, including publications of learned societies, the Library receives an unusually large number,—the foreign serials alone being not less than five hundred. The Linonian and Brothers Library contains about 30,000 volumes. The

whole number of volumes in the several libraries of the University is over 200,000.

The Reading Room receives fifty-three daily newspapers, American and foreign, over sixty weeklies, and seventy other periodicals—in addition to the periodicals received at the University Library.

THE DEGREE OF DOCTOR OF PHILOSOPHY is conferred upon those who, after having taken a Bachelor's degree (implying a course of undergraduate study equivalent to that pursued in the Academical Department), and having studied in this Department for not less than two years, shall have passed a satisfactory final examination and presented a thesis giving evidence of high attainment in the branches of knowledge pursued. The thesis must be deposited at the Library for public inspection, not later than June 1. The degree is not given, upon examination, to those whose studies are pursued elsewhere. The requirements for a degree in many cases exact of the student more than two years of labor; especially when the course of undergraduate study has been less than four years. A good knowledge of Latin, German, and French, is required in all cases, unless, for some very exceptional reasons, the candidate be excused by the Faculty. The fee for graduation is ten dollars.

The degree of Doctor of Philosophy with the courses of the Graduate Department leading thereto is open to candidates without distinction of sex.

The Committee having charge of matters connected with this degree consists, for the present year, of Professors Newton, Brush, Wheeler, Ladd, Seymour, and Hadley. They will give advice and information as to courses of study, conditions, etc.

THE DEGREE OF MASTER OF ARTS is conferred on Bachelors of Arts of Yale College or of other Colleges, of two

years' standing or upwards, who have given to the Faculty of the Academical Department evidence of having made satisfactory progress in liberal studies after receiving their first degree. Such evidence may be furnished by one year's systematic study (not professional) in New Haven, under the direction of the Academical Faculty, followed by an examination. Graduates of other Colleges can obtain the degree only by residence as thus described.

Such Bachelors of Arts of *Yale College* as may not choose to reside at the College for the prosecution of study may show at any time, not less than three years after graduation, by their printed essays, or by submitting to special examinations, that they have spent a year in liberal (and non-professional) study, and are worthy of recommendation for this degree.

A committee of the Faculty is appointed (consisting for the present year of Professors Newton and Wheeler), to whom candidates for this degree must submit their proposed courses of study for approval by the first of November in each year; and the evidence of a year's study must be submitted to the same committee by June 1.

In the case of resident students, the charge for instruction will usually be one hundred dollars, with a fee of ten dollars for the degree. In the case of non-residents, the fee for examinations and the degree will usually be twenty-five dollars.

THE DEGREES OF CIVIL ENGINEER AND MECHANICAL ENGINEER are conferred on Bachelors of Philosophy who have taken the first degree in Engineering study, and who pursue a higher course under the direction of the Governing Board of the Sheffield Scientific School, for at least two years, sustaining a final examination, and giving evidence of their ability to design important constructions and to make the requisite drawings and calculations. The fee for graduation is five dollars.

FIVE FELLOWSHIPS yielding four hundred dollars each, and twenty Scholarships yielding one hundred dollars each, have been created by the Corporation out of the income of University funds. These fellowships and scholarships are open to graduates of all colleges; but in the case of the fellowships, preference is given to those who have already spent at least one year in graduate study. Candidates for these appointments should send their applications, accompanied by letters of recommendation and other evidences of the excellence of their work already accomplished, to Professor George T. Ladd, Chairman of the Committee on Fellowships and Scholarships, not later than May 1.

For further information, address the Dean, Professor Arthur T. Hadley.

COURSES OF INSTRUCTION

Courses marked with an asterisk (*) are undergraduate courses, but are open to graduate students, provided that they have the consent of the instructor and the approval of the Faculty.

The number of hours stated means, in every case, hours of exercises, lectures, or recitations, each week.

I. PSYCHOLOGY; ETHICS; AND PHILOSOPHY

Professor LADD :—

1. *Introduction to Philosophy.* 2 hrs. both terms.

This course is designed for all graduate students who desire any acquaintance with philosophy, whether they make it a matter of special study or not. It may be taken for purposes of general culture; since it will provide for a brief survey of all the principal problems of philosophy, in an elementary way. One hour each week is occupied by the instructor with a lecture. The

other exercises consist of discussions and reading of papers, in which each member of the class is expected to take part. The course follows the order of topics in Ladd's *Introduction to Philosophy*, which will be supplemented by the study of several of Lotze's *Philosophical Outlines*, and by reference to other books.

During the latter half of the year special emphasis will be laid upon the philosophy of life and of conduct, in connection with the discussion of problems in Ethics, Aesthetics, and the Philosophy of Religion.

*2. *Psychology.* 2 hrs. both terms.

A detailed study of the phenomena of mental life from the scientific point of view. James's *Principles of Psychology* is read, with constant reference to the work of other leading modern authors; and the reading is accompanied by papers, discussions, and lectures.

3. *Kant Seminary.* 2 hrs. both terms.

This course continues the thorough critical study of Kant, begun in '92-'93. In order, however, to further the work of those who did not begin at that time, the *Prolegomena* will be rapidly read (with constant reference to the *Kritik of Pure Reason*, in both editions) as introductory. This will be followed by a more detailed study of the Ethical Writings and the *Kritik of Judgment*. An expository and critical lecture of about forty-five minutes, in general, precedes the discussion, by the teacher and the class, of the text. Each member of the class is expected to take part in the discussions and preparation of papers.

4. *Philosophy of Religion.* 2 hrs. both terms.

A careful investigation is made of the historical and rational grounds of religious faith and life. One hour a week of lectures is given throughout the year. The other weekly exercise is conducted after the seminary method. Martineau's *A Study of Religion* and Pfleiderer's *Philosophy of Religion* are read; and papers and discussions accompany the reading of these works.

Assistant Professor DUNCAN :—

5 *The Philosophy of Herbert Spencer.* 2 hrs. both terms.

This course is a study of the Evolution Theory of Spencer in its psychological, ethical, and metaphysical aspects. Spencer's *First Principles of Philosophy*, *Principles of Psychology* (selections), and *Data of Ethics* are read and discussed.

6 *Popular Discussions in Philosophy.* 1 hr. both terms.

This is a course in *philosophical criticism*, and is intended to develop and train the critical spirit ; to deepen interest in the more profound themes of philosophy by showing their connection with popular life and thought ; and to vindicate sound psychology and theistic and Christian philosophy from the perennial misconceptions to which they are exposed. To this end some of the popular philosophical papers of Huxley, Tyndall, Mill, Clifford, Spencer, and others are read and freely discussed.

*7 *History of Philosophy.* 2 hrs. both terms.

An elementary study of the development of speculative thought from Descartes to the present time. The course consists of lectures and expositions by the instructor, and the cursory reading by the students of philosophical masterpieces from Descartes to Kant. Descartes' *Method* and *Principles of Philosophy*, pt. 1 ; Bacon's *Novum Organum* ; Spinoza's *Ethics*—selections ; Locke's *Essay on Human Understanding*—selections ; Leibnitz's *Monadology* and *Philosophical Opuscles* ; Berkeley's *Principles of Human Knowledge* ; Hume's *Inquiry Concerning Human Understanding* ; Reid's *Inquiry into Human Mind* ; Kant's *Prolegomena to any Future Metaphysic*. The course is intended for purposes of general culture, but it also aims to be an introduction to the special study of philosophy and the philosophical problems which underlie social ethics, jurisprudence, and theology.

Assistant Professor SNEATH :—

8 *History of Ethics.* 2 hrs. both terms.

A careful historical and critical examination of the various types of Ethical Theory, including rational, hedonistic, eudemonistic, aesthetic, and evolutionary ethics. The course closes with an inquiry into the relation of Ethics to Theism. Lectures, discussions, and collateral readings.

By a recent provision a laboratory for experimental psychology has been opened to graduate students under a special instructor and an assistant, in connection with which the following courses are given :

Dr. SCRIPTURE :—

9 *Experimental Psychology.* 2 hrs. both terms.

The methods of psychology; general principles of measurement and experiment; psychological measurements; statistics of mental phenomena; construction and care of apparatus; errors and constants of apparatus; fundamental principles of mechanical, auditory, optical, thermal, and electrical stimulation; measurements and experiments in sight, hearing, touch, taste, smell, etc.; principles of the graphic method; measurements of the duration of mental phenomena; experiments on the more complicated mental processes; laws of errors in memory; the emotions; voluntary and involuntary movements; complicated acts of will; principles of laboratory economy.

References to Wundt's *Physiologische Psychologie*; Ladd's *Elements of Physiological Psychology*; Fechner's *Elemente der Psychophysik* and *Revision der Hauptpunkte der Psychophysik*; Helmholtz's *Physiologische Optik*.

10 *Laboratory Course in Experimental Psychology.*

2 hrs. both terms.

Two exercises each week of practical work in the laboratory. Careful training is given in making experiments and measurements according to the fundamental methods of psychology (minimum variation, average errors, observational errors). This is followed by applications to touch, temperature, hearing, sight, action, etc., and by exercises in the graphic method, chronometry, dynamometry, plethysmography, audiometry, photometry, colorimetry, stereography, and measurements of rapidity, accuracy, and extent of movement. There will also be work in the construction and care of apparatus, the elements of machine-design, use of tools, lathe-work, vise-work, etc. Wundt's *Physiologische Psychologie*; Helmholtz's *Physiologische Optik*; Weinstein's *Physikalische Maassbestimmungen*; Lehmann's *Physikalische Technik*; Langendorff's *Physiologische Graphik*.

11 *Research-Work in Psychology.* 4 hrs. both terms.

Several lines of investigation will be instituted on the emotions, the psychology of hearing, the psychology of sight, the time-relations of mental phenomena, and such other subjects as may be agreed upon. Those who take this course are assigned to divisions, each of which is under the charge of some more experienced student who is responsible for the work of that division.

The results of the investigations belong to the archives of the laboratory ; those who take charge of divisions thereby agree to prepare the results for publication, provided the work is deemed of sufficient merit. Successful investigators of sufficient graduate standing can use their results as theses for the degree of Ph.D.

12 *Educational Psychology.*

2 hrs. both terms.

Application of modern psychological principles to educational subjects ; the psychological methods as modified for school use ; outlines of the psychology of touch, its use in education ; motor abilities, accuracy of movement, fundamental principles of writing and drawing ; hearing, training the ear, hearing and singing, fundamental principles of instruction in music ; sight, color-teaching ; space, form-teaching, drawing, modeling ; attention, concentration and distraction, accessories of the school-room-laws for developing attention ; memory, analysis into its components, experimental study, calculation of results, development and training, periodicity, time of study ; imagination, use, necessity of development and repression, fables, children's books, toys : emotions, development and repression, requirements for different grades of life ; will, action, reflex, automatic, instinctive, voluntary, training ; child-study on a scientific basis, principles of anthropometry and psychometry, tests and measurements adapted to rapid work in schools, record-blanks, use of results ; psychological development of the child, first expressions of the various abilities, beginnings of instruction ; economy in education, greatest results from least effort, correlation and concentration of instruction ; various educational subjects from a psychological standpoint,—amusement, play, picture-books, object-lessons, etc.

The course is copiously illustrated with models, charts, books, experiments, and educational material both good and bad.

13 *Research-Work in Pedagogy.*

4 hrs. both terms.

Several lines of investigation in educational subjects will be undertaken. The subjects projected are : the invention and establishment of a scientific system of child-study, the invention and practical testing of a rational system of color-teaching, the best way of exercising the memory, the period of study, and such others as may be agreed upon. The regulations for this course are the same as for course 11.

Dr. BLISS :—

- 14 *Elements of Psychophysics.* 2 hrs. first term.

The psychophysical methods ; errors of observation and their elimination in physical measurements, physical and psychological accuracy, method of observational errors (right and wrong answers), of average errors, of minimum variation ; limits of sensation, threshold of difference ; Weber's law ; Fechner's law ; Helmholtz's extension of Fechner's law. The lectures and demonstrations are arranged to precede corresponding exercises in course 10. Wundt's *Physiologische Psychologie* ; Fechner's *Elemente der Psychophysik, Hauptpunkte der Psychophysik* ; Müller's *Zur Grundlegung der Psychophysik*.

- 15 *Psychological Optics.* 2 hrs. second term.

Sensations of color, mixture, colorimetry, color systems, fundamental colors, color theories, color blindness, intensity, photometry, duration of sensations, after-images, contrast, monocular retinal space, movements of the eye, monocular eye space, binocular movements, binocular concepts, stereoscopic vision, psychological development of vision. Helmholtz's *Physiologische Optik* ; Wundt's *Physiologische Psychologie*.

[Those who wish to prepare themselves as specialists in psychology and pedagogy or as teachers, may take allied courses in physics, physiology, biology, and medicine, whether offered by the Graduate Department or by the Medical School.]

Dr. BUCHNER :—

- 16 *Pedagogics.* 2 hrs. both terms.

A summary study of the laws of mental development, as including the principles common to all methods ; and an historical and critical examination to determine the best methods applicable to the different main branches of instruction. Compayré's *Lectures on Pedagogy* ; Kehr's *Geschichte der Methodik* ; Dittes's *Schule der Pädagogik*.

- 17 *History of Philosophy.* 2 hrs. both terms.

A course in Hegel's *Phaenomenologie des Geistes* and *Logik*. Seminary Plan.

The following courses in the Divinity School are also open to graduate students of philosophy, on obtaining, in each case, permission from the instructor.

Professor HARRIS :—

- 18 *The Philosophical Basis of Theism and the Self-Revelation of God.* 2 hrs. both terms.

A course of lectures on these topics, accompanied by a study of text-books bearing the same names. The course is primarily designed for Juniors in the Divinity School.

- 19 *Special Topics of present interest in the Philosophy of Religion.* 1 hr. both terms.

This course is primarily designed for graduates of the Divinity School.

Dr. FAIRBANKS :—

- 20 *Comparative Religion.* 2 hrs. until Easter.

(a) Two or three types of religion among uncivilized tribes (the North American Indians and the Negroes) will be studied, and the different theories as to the origin of religion will be criticised. (b) Under the History of Religion, the religions of India and Persia will be studied, and on this basis the effort will be made to trace some of the laws that govern the development of religion, and the factors which tend to aid or hinder such development. (c) The Phenomenology of Religion, including a discussion of rites and ceremonies, objects of worship, etc., and the connections with these of the real development of religion.

- 21 *History of Semitic Religions.* 1 hr. both terms.

The religions of the different Semitic races will be studied in their relation to the religion of the Hebrews. The work consists largely of papers and discussions by the students.

- 22 *History of Social Ethics.* 1 hr. both terms.

The popular conceptions of duty and sin, and of the different virtues, will be discussed with reference to their development, especially among the Hebrews and the Greeks.

- 23 *Philosophy of Religion.* 1 hr. both terms.

Modern theories as to the philosophy of religion will be presented and discussed by members of the class as well as by the instructors.

- 24 *Social Problems.* 2 hrs. both terms.

II. POLITICAL AND SOCIAL SCIENCE AND HISTORY

Professor SUMNER :—

- 1 *The Historical Development of the Modern Industrial Organization.* 2 hrs. both terms.

Including the transformation of the system of production from the manor and guild system to the wage system; the transformation of commerce by the opening of the world-market; the invention and improvement of credit institutions; the development of transportation and means of communication. In connection with these subjects, attention is given to the evolution of economic doctrine, and to the social effects of economic changes.

- 2 *Anthropology.* 2 hrs. both terms.

A careful study of Ranke's *Der Mensch* as a text-book, with an examination of material on the separate topics.

This course will not be given in 1893-94.

- *3 *Social Science.* 2 hrs. both terms.

A very elementary course in Anthropology and Ethnology, with the origin of civilization and the development of institutions, as an introduction to a scientific study of social problems. Those who are able to read difficult French or German may join special divisions to read either Quatrefages's *Histoire Générale des Races Humaines* or Lippert's *Kulturgeschichte* (2 vols., Stuttgart, 1887).

Professor FARNAM :—

- 4 *The Principles of Public Finance.* 2 hrs. 2d term.

A systematic survey of the means by which the expenditures of government are met, regard being had both to the economic principles involved and to the fiscal system of modern states. Leading topics are: the budget, taxation (national and local), public debts, and state banks considered as aids to public credit.

- 5 *The History of Labor Organizations.* 2 hrs. 1st term.

In this course the development of associations of artisans from the origin of the guild system to the present day will be traced. Particular attention is paid to their relations to the arts, their influence on the welfare of the laboring classes, their connection with the governmental regulation of industry, and their bearing on some practical problems of the day.

6 *The Economics of Poor-Relief.* 2d term.

Six lectures, comprising a comparative and historical study of the methods by which pauperism is dealt with, together with a discussion of the economic principles involved.

Professor HADLEY :—

*7 *Economics (General Course).* 2 hrs. both terms.

A course in the general principles of the science, including its applications to the most important problems of finance and industrial legislation, as short as is consistent with thorough work. Walker's *Political Economy* is used as a text-book, supplemented by informal lectures and discussions.

*8 *Economics (Special Course).* 3 hrs. both terms.

Covering the same ground as the preceding course, but intended for those who are willing to do much harder work in outside reading and investigation. Two of the hours coincide with those of the general course; the third is devoted to the discussion of more perplexing points for which the shorter course furnishes inadequate time.

Professors HADLEY and SCHWAB :—

*9 *Economic Policy.* 3 hrs. both terms.

Open only to those who have taken a course in Economics. The class is divided into sections small enough for the most effective oral work of recitation and instruction. Each section meets Professor Hadley for about one-third of the year and Professor Schwab the remaining two-thirds. Professor Hadley deals chiefly with the relations of labor and capital, and the questions arising from the growth of corporations: Sumner's *Economic Problems* will be used as the text-book. Professor Schwab deals with the principles of Currency, Banking, Taxation, Tariff Legislation, and *Public Debts*, using as text-books Jevons's *Money*, Dunbar's *Banking*, Taussig's *Tariff History of the United States*, and Adams's *Public Debts*, together with Sumner's *Economic Problems*. Special attention is given to the financial history of the United States.

Professor HADLEY :—

10 *Economic Problems of Corporations.* 1 hr. both terms.

This course deals with the growth of combinations, trusts, and monopolies; the difficulties connected with private and with

public management of such monopolies ; the control of services rendered and prices charged ; with especial reference, under the latter head, to the subject of railroad regulation.

11 *Political Science.* 1 hr. both terms.

A course (for the most advanced students) in the application of methods of economics to the history of institutions, with particular reference to the problems of modern law and modern commercial ethics.

Assistant Professor SCHWAB :—

*12 *Economics.* 1 hr. both terms.

The monetary history of the United States since 1860 is the subject of class-room work for the year, but provision is made for those who prefer to pursue investigations in other departments of Economics. Each student is expected to investigate an assigned topic thoroughly, and to prepare a series of papers upon it.

13 *United States Public Finance.* 2 hrs. 1st term.

The principles of government revenue and their application to the finances of the United States, especially to State, County, Township, and City finances. Leading topics are : the spheres of expenditure and revenue of the different political units of the United States ; their fiscal policy ; historical and critical study of their forms of revenue ; public lands, government monopolies, fees, licenses, taxes, and loans ; the American system of State and local taxation in theory and practice ; State and local debt-financiering.

14 *Investigation Course.* 1 hr. 2d term.

General topics in the financial history of the United States are assigned for individual investigation by the students. The results are presented and discussed at the meetings of the class.

Professor ROBINSON :—

*15 *Jurisprudence.* 2 hrs. 1st term.

The course consists of lectures, readings, and examinations on the following subjects : law in its relations to the origin, development, and government of political society ; origin and development of customary law ; relation of statute law to customary law ; formation and development of codes of law ; nature and origin of legal rights ; principles of the law governing

rights in land ; principles of the law governing contract rights ; the law of remedies for the violation of rights ; origin and procedure of courts of law and equity ; criminal law. The instruction in this course is designed to present an historical and philosophical view of the law in its great outlines, as common to all nations, and as particularly developed in the Anglo-Saxon race, and thus to serve as an introduction to the courses of Professor Phelps in Municipal, Constitutional, and International Law.

Professor PHELPS :—

- *16 *Law.* 2 hrs. 2d term.

The common law of this country. Constitutional law. International law. The instruction is by lectures based upon textbooks to be read in connection.

Dr. RAYNOLDS :—

- 17 *Comparative Constitutional Law.* 1 hr. both terms.

A comparative study of the modern constitutional state, especially with regard to the principal forms of constitutional government, the constitution, powers, and relations of the governmental departments, and the laws and practices of elections in the various states.

Professor BREWER :—

- 18 *Physical Geography in its relation to Political History.* 1 hr. 2d term.

A course of about twelve lectures discussing the following topics: 1. The relations of man to the region he inhabits. 2. The physical conditions and natural productions necessary for civilization. 3. Natural aids to the defence and protection of communities. 4. Natural facilities for commerce. 5. How the influence of natural conditions is modified by modern inventions.

Professor WHEELER :—

- *19 *History of Europe since 1789.* 2 hrs. both terms.

Mainly political ; introductory to European politics of our day.

- 20 *English History since 1640, constitutional and political.* 2 hrs. both terms.

Professor C. H. SMITH :—

- *21 *American History (Colonial)*. 2 hrs. both terms.

Exploration and early settlement of North America, and colonial history to the close of the Revolutionary War. Selected topics are assigned for study, and the full course occupies two years; but the part given in either year may be taken for that year only.

- *22 *American History (National)*. 2 hrs. both terms.

Political and constitutional history of the United States. The selected topics occupy two years, but a part of them may be taken as a one-year course, as explained above.

Professor ADAMS :—

- *23 *English History to 1485*. 2 hrs. both terms.

Political and constitutional. Particular attention is given to the origin and development of the system of self-government. The course is of especial value to those who intend to study law.

- *24 *Medieval History*. 2 hrs. both terms.

The object of the course is to furnish an outline of the general history of Europe, and to follow the development of political, intellectual, and religious civilization through the period which lies between ancient and modern history.

- 25 *The Age of the Renaissance*. 1 hr. both terms.

The founding and development of universities, the revival of learning, the awakening of the critical spirit and its application to old beliefs, the age of discoveries, and the beginning of modern physical science.

The work consists in the careful study of assigned topics upon which reports will be made to the class. These topics are so arranged that, combined with the lectures given, they form a continuous history of the period. In the presentation of these reports the student is expected to assume, for the occasion, the position of an instructor, and to have constantly in view in his study of the subject, the most effective method of teaching it to a class. The criticisms and suggestions of the other members of the class and of the instructor are directed not merely to the subject-matter but also to the method of presentation.

This may be made a two-hours course by any one who wishes to do extra work in the subject, and it is understood that the sessions of the class may extend to two hours.

26 *Investigation Course.*

The investigation of special topics in the field of European history. The topics to be studied may be selected by the student with the approval of the instructor. Occasional meetings of those who take the course are held for the discussion and illustration of the methods of historical investigation and criticism, and it is the object of the course to impart a knowledge of these methods as well as of the special facts investigated.

Mr. F. WELLS WILLIAMS :—

- *27 *Europe from the Reformation to the French Revolution of 1789.* 2 hrs. both terms.
*28 *England since 1485.* 2 hrs. both terms.
Political and constitutional.

The following course in the Divinity School is also open, by the special permission of Professor Fisher, to graduate students :

Professor FISHER :

- 29 *General Church History.* 3 hrs. both terms.

This course comprises the following topics: The nature, divisions, and sources of Church History, with a review of the literature on the subject; the old or preparatory dispensation in its relation to Christianity; the condition of the Graeco-Roman world at the introduction of the Gospel; the establishment of Christianity, and the conflicts of the apostolic age; the spread of Christianity, including especially the conversion of the Roman Empire and of the Teutonic nations; the changes in ecclesiastical polity in the early centuries; the organization of Latin Christianity under the Papacy; the relations of the Papacy and the Church to civil society in the Middle Ages; the Protestant Reformation, with its causes and the systems of polity adopted by the different Protestant churches; Christian life, and its characteristic features in the successive eras (including the rise and subsequent history of monasticism); the history of Christian worship.

[For courses on the Athenian Commonwealth and on the Greek Historians, see Classical Philology, 13 and *18.]

III. ORIENTAL LANGUAGES AND BIBLICAL LITERATURE

Professor WHITNEY :—

- 1 *Sanskrit* (Elementary). 2 hrs. both terms.
- 2 *Sanskrit* (Intermediate). 2 hrs. both terms.
- 3 *Sanskrit* (Advanced). 2 hrs. both terms.

Instruction in Sanskrit, beginning with the instructor's *Sanskrit Grammar*, and passing on to Lanman's *Reader*, etc., and to various branches of the literature, whether Vedic or classical, as may suit the advancement and the tastes of the student.

Mr. VAN NAME :—

- 4 *Japanese*. 1 or 2 hrs. both terms.
Elements of the Japanese language, and exercises in the reading of both transliterated and native text.

President DWIGHT :—

- *5 *The Four Gospels (English)*. 1 hr. both terms.
A study of the Gospels with reference to the teachings of Jesus.
- *6 *The Epistle to the Galatians*. 1 hr. both terms.
A study of the Epistle in the original Greek with reference to the thought of the author.

Professor CURTIS :—

- *7 *The Book of Isaiah (English)*. 1 hr. both terms.
A study of the times and the writings of Isaiah. The material is classified chronologically and interpreted by the instructor, supplemented by investigations by the class.

Assistant Professor SANDERS and Mr. CREELMAN :—

- *8 *Old Testament Literature (English)*. 2 hrs. both terms.
A survey of the Old Testament, arranged, as far as possible, in chronological order and historical connection, attention being paid to the history, religion, and characteristics of the ancient nations which were closely allied to Israel, to the beginnings of Israelitish history, to the origin and growth of Hebrew religion, and to the literature as a reflex of the national development.

The object of this course is the general mastery of the Old Testament material from an historical and literary point of view, and the comprehension of Israel's place in history.

- * 9 *History of the English Bible.* 1 hr. both terms.

- *10 *Beginning Hebrew (first course).* 4 hrs. 1st term.

The detailed study of *Genesis* i-iv, and with these chapters the introduction to the etymology, syntax, and idiom of the language.

- *11 *Beginning Hebrew (second course).* 4 hrs. 2d term.

The detailed study of *Genesis* v-viii and of extracts from other historical material, laying stress at times upon the etymology, syntax, and simple accentuation, at other times upon rapid but accurate translation. This work is supplemented by regular sight-reading and by lectures.

- *12 *Early Hebrew Poetry.* 2 hrs. 1st term.

A study of the short poems scattered through the historical books of the Old Testament, especial attention being paid to poetical form, metre, historical interpretation, and the principles of textual criticism.

- *13 *Hebrew Law, History, and Prophecy.* 2 hrs. 2d term.

Selections from *Deuteronomy*, *Samuel*, *Kings*, and the Minor Prophets, with a discussion of the material from an historical and comparative as well as textual standpoint.

- 14 *Sight-Reading in Hebrew.* 2 hrs. both terms.

The class is allowed to choose either one of three courses, (a) readings in the Hexateuch, each document being read separately; (b) readings in the Major Prophets; (c) readings in the Historical books.

- 15 *Biblical Aramaic.* 2 hrs. 2d term.

A study of the elements of Aramaic, using Brown's *Manual*, followed by a critical study of the Aramaic of *Ezra* and *Daniel*, and a discussion of the literary form and contents of the book of Daniel.

- 16 *Beginning Arabic.* 2 hrs. both terms.

The Arabic version of *Genesis* i-iii (Lansing's *Arabic Manual*), and with these chapters the principles of the language; reading of selected Suras of the *Qurân*; lectures on early Arabian civilization, Arabic literature, the structure and contents of the *Qurân*, and the history of Islam. Sight-reading in the *Thousand and One Nights*.

- 17 *Arabic Poetical Literature.* 2 hrs. both terms.
 Selections from the *Mu'allaqât* and other poetical literature, with lectures on the various textual and historical topics suggested, and with special investigations by members of the class.
- 18 *Beginning Assyrian.* 2 hrs. 1st term.
 This course includes (a) the grammatical principles, (b) mastery of the most common cuneiform signs, (c) reading of transliterated and cuneiform text. Lyon's *Assyrian Manual* is used as a textbook, with constant references to Delitzsch's *Assyrian Grammar*.
- 19 *Assyrian Historical Inscriptions.* 2 hrs. 2d term.
 The critical interpretation of the inscription of Tiglathpileser I, and of other historical texts.
- 20 *Assyro-Babylonian Literature and History.* 2 hrs. both terms.
 A rapid reading with the use of Schrader's transliterated texts of the whole range of Babylonian and Assyrian historical inscriptions, the object being to gain a familiarity with the literature and history, and a critical estimate of it.
- 21 *Comparative Semitic Grammar.* 2 hrs. both terms.
 The first term is largely occupied in acquiring an ability to read Ethiopic and Syriac, lectures being given by the instructor on the structural peculiarities of these languages. During the second term Wright's *Comparative Grammar* is read and critically discussed, special themes being presented in lectures and class papers. The class meets only once each week.

The following Semitic courses in the Divinity School are open to graduate students with the consent of the instructor :

Professor CURTIS :—

- 22 *Psalms and Isaiah.* 2 hrs. both terms.
 Reading of selections with special reference to Hebrew syntax and Biblical interpretation.
- 23 *Job.* 1 hr. both terms.
 A critical study of the poem, including reference to the structure of Hebrew poetry and the thought of the Old-Testament Wisdom Literature.

- 24 *Hexateuchal Criticism.* 1 hr. 2d term.
An examination of the evidence for the documentary composition of the Hexateuch, and the theories of its explanation.
- 25 *Old-Testament Introduction.* 1 hr. both terms.
The history of the Old-Testament Canon, and of the separate Old-Testament books with a summary of their contents, and also an account of the text and versions of the Old-Testament.
- 26 *Old-Testament Textual Criticism.* 1 hr. both terms.
A reading and discussion of Siegfried's *Critical Edition of the Hebrew Text of the Book of Job*.

IV. CLASSICAL PHILOLOGY

Dr. OERTEL :—

- 1 *Comparative Philology.* 1 hr. both terms.
The general principles of linguistic science ; a short sketch of its history and development ; exposition and discussion of the modern methods of linguistic science.
- 2 *Comparative Phonology and Morphology of Greek and Latin.* 3 hrs. both terms.
This course is intended for classical students who wish to become acquainted with the methods and chief results of the modern comparative treatment of Greek and Latin sounds and inflection. Especial attention is given to both Greek and Italic dialects.
- 3 *Investigation Course.* 1 hr. both terms.
For the presentation and discussion of the results of individual investigation ; also for reports and informal discussion of recent publications in Comparative Philology.

Professor PERRIN :—

- 4 *The Tradition of the Persian Wars from Herodotus to Plutarch.* 3 hrs. both terms.
Lectures and Seminary exercises.

Professor SEYMOUR :—

- 5 *Aeschylus.* 3 hrs. both terms.

The extant plays of Aeschylus will be read. The instructor will interpret the *Prometheus* and parts of other plays. The members of the class will interpret in turn. The so-called "Seminary methods" are followed largely.

- 6 *The Greek Dialects.* 2 hrs. both terms.

The fragments of Greek Lyric Poetry and the most important dialectic inscriptions will be read. Bergk's *Anthologia Lyrica* and Cauer's *Delectus Inscriptionum Graecarum* are the ordinary text-books.

- *7 *Plato.* 2 hrs. both terms.

The *Gorgias* and considerable parts of the *Republic* will be read, with special reference to Plato's literary style and dramatic art, although not neglecting the Platonic Philosophy.

- *8 *Pindar.* 2 hrs. 2d term.

- *9 *Greek Testament.* 1 hr. 2d term.

A philological interpretation of St. Paul's Epistles to the Corinthians. Special attention is paid to the vocabulary and literary style.

Mr. KITCHEL :—

- *10 *The Choephoroi of Aeschylus, the Electra of Sophocles, and the Electra of Euripides.* 2 hrs. 2d term.

These plays will be read and carefully compared, with the intent of noting the development of the drama thus exhibited, both in chorus and in plot. The points of similarity and dissimilarity between the ancient and the modern drama are sought for.

Assistant Professor CLAPP :—

- *11 *Aristophanes.* 2 hrs. 1st term.

The *Clouds*, *Knights*, *Birds*. The plays will be studied chiefly from the literary point of view, but questions of metre and scenic antiquities will be discussed so far as may help to the fuller appreciation of what is read.

- *12 *Lucian.* 1 hr. 1st term.

An introduction to the study of Lucian as a man of letters and reviver of Attic prose.

Professor GOODELL :—

13 *The Athenian Commonwealth.* 2 hrs. 1st half-year.

The constitution, courts, and legal system of Athens, in their historical development and in their completed form as existing in the fourth century B. C. Aristotle's *Athenian Constitution* is read and interpreted ; topics are assigned for individual investigation, and the results presented to the class for criticism and discussion. The student thus becomes familiar with our principal ancient authority in this field, and obtains a practical introduction to the voluminous modern literature on the subject.

14 *The Political Speeches of Demosthenes.* 2 hrs. 2d half-year.

This course includes (a) the reading, in class and privately, of about 400 Teubner pages of text, (b) a careful study of the orator's style, (c) considerable attention to the history of Philip's gradual subjugation of Greece. To cultivate appreciation of the style, some time is given to practical exercises in translation from Greek at dictation.

*15 *Introduction to Greek Archaeology.* 1 hr. both terms.

An outline study of Greek pottery, architecture, and sculpture, with some attention to gems, metal work, coins, figurines, and painting, as illustrated by existing examples. The subject is taken up by periods, to show the historical development of Greek artistic production and its relation to other phases of Greek life and to modern art.

Photographs, the large collection of archaeological works belonging to the Library, the University coin collection, and the casts of the Art School, are freely used in lectures and are made available for private study.

Professor REYNOLDS :—

16 *Attic Inscriptions.* 1 hr, both terms.

An introduction to Greek Epigraphy. The course includes a careful study of the development of the Greek, especially of the Attic, alphabet. The student is familiarized with the reading of inscriptions in their original form (by means of paper squeezes), with their grammatical peculiarities, formulae, and historical content. The principal inscriptions prior to the archonship of Eu-

clides, 403 B. C., and some representative ones of later date will be read. Roehl's *Imagines Inscriptionum Graecarum Antiquissimarum*, Berlin, 1883, is the text-book used.

- *17 *Homer.* 2 hrs. 1st term.

The later books of the *Odyssey* are read, with special reference to the literary quality of the poem, and to the acquisition of facility in reading.

- *18 *The Greek Historians.* 2 hrs. 2d term.

The subject is Athens during the age of Pericles. The course includes a discussion of the methods of the principal Greek historians and of the other sources of Greek history of this period, the history of parties and public men, social questions, and especially the life and thought of Athens (education, morals, religion, etc.).

The course involves the reading of considerable Greek, especially prose, and the investigation of assigned topics. Fluency in reading Greek at sight and the ability to use French and German books of reference will be useful but not essential.

MR. BROWNSON :—

- 19 *The Greek Theatre.* 1 hr. both terms.

Dealing with the plan and structure of the theatre, with special reference to the stage question, and with scenic antiquities in general. The subject is studied from both the archaeological and literary points of view. The results of recent excavations are discussed in lectures, and illustrative extracts will be read from tragedy and comedy.

PROFESSOR PECK :—

- 20 *The Satires of Horace.* 2 hrs. 1st term.

- *21 *Latin Philology.* 1 hr. 1st term.

- *22 *Latin Composition.* 2 hrs. 1st term.

Oral and written exercises based largely on the Latinity of Terence.

- *23 *Tacitus (Annals, 1-6) and Suetonius (Tiberius).*
3 hrs. 1st term.

- *24 *Persius and Juvenal.* 2 hrs. 1st term.

Professor MORRIS :—

- 25 *Historical Syntax.* 1 hr. both terms.
Principles and methods of the historical syntax of the Latin modes and tenses; discussion of text-books and of typical special investigations; study of a single group of constructions.
- 26 *Text-criticism of Cicero's Orator.* 1 hr. 2d term.
Each session occupies two hours.
An introduction upon the history and methods of text-criticism, followed by work upon the text of the *Orator*.
- *27 *The Conspiracy of Catiline.* 2 hrs. 2d term.
Each session lasts two hours, and little outside work is required.
A study of the conspiracy of Catiline from the sources, involving the reading of Cicero *in Catilinam* i-iv and *pro Murena*, Salust's *Catilina*, Asconius on the oration *in Toga Candida*, and some chapters of Dio Cassius.
The course is intended especially for students who expect to teach Latin.
- *28 *Plautus.* 2 hrs. 2d term.
A special course for the study of questions of text, metres, language, etc.

Professor H. P. WRIGHT :—

- *29 *Lyric Poetry.* 2 hrs. 2d term.
Books iii and iv of the Odes of Horace, the shorter poems of Catullus, Latin Hymns.

Mr. ROBERTS :—

- *30 *Terence.* 2 hrs. 1st term.
- *31 *Cicero.* 2 hrs. 2d term.
Cicero's *Second Philippic* and other orations.

Mr. THOMPSON :—

- *32 *Livy, Books XXI and XXII.* 2 hrs. 1st term.
Rapid reading, with study of the Second Punic War.

Professor Hoppin's lectures on Greek Art, before the Art School, are open to graduate students.

The Classical Club now has a large and convenient room (the western half of the College Library of half a century ago) set apart for its use. This room is intended to become the headquarters of advanced students in classical philology. It already contains over a thousand volumes, of texts, commentaries, works on antiquities, etc., as the germ of a departmental library. The Club meets every Saturday and spends that evening in reading and discussing the work of some classic author, with reports and papers in the field of Greek and Latin Philology. During the year 1893-94, Sophocles and Horace are the special authors studied.

V. MODERN LANGUAGES AND LITERATURES

Professor LUQUIENS :—

- 1 *Early French Literature.* 1 hr. both terms.

Bartsch's *Chrestomathie* is the text-book, but special attention is given to the following works : *Chanson de Roland*, *Roman de Rou*, *Roman de la Rose*, *Romans de la Table Ronde*, *Joinville*. Students who take this course must take also the next one (2).

- 2 *Historical Grammar.* 1 hr. 1st term.

A brief survey of the successive transformations through which modern French was evolved from Latin.

- 3 *Entretiens sur la Littérature française.* 2 hrs. both terms.

The lectures are given in French and the required work, written and oral, is in that language also. Topic for the first term : Lafontaine, Racine, and Molière ; for the second term : the sixteenth century.

- 4 *Systematic Readings through Modern French Literature.*

2 hrs. both terms.

Corneille, Boileau, Racine, Molière, Lafontaine, Mme. de Sévigné, Saint Simon, for the xviii century. Chateaubriand, Mme. de Staël, V. Hugo, Balzac, George Sand, Thiers, Michelet, Taine, for the xixth. Written analysis and short critical papers required.

5 *French Literature of the XVIIIth Century.* 2 hrs. 2d term.

Lectures and reading from the texts. Individual work required. Montesquieu, Voltaire, J. J. Rousseau, and Beaumarchais.

6 *Montaigne and his Essays.* 1 hr. 1st term.

Assistant Professor LANG :—

*7 *Spanish Elementary Course.* 3 hrs. 1st term.

Sophomore French is a requisite for admission to this course. Its aim is to make the student acquire a good pronunciation and to give him such practice in Spanish conversation and composition as will make it possible to dispense more and more with the use of English in the subsequent courses.

8 *Spanish Drama and Fiction of the Seventeenth Century.* 1 hr. both terms.

This course is only open to those who have passed through Course 7, or who have otherwise satisfied the instructor in regard to their fitness to take it. Spanish is, as much as possible, made the means of instruction, and exercises in composition are written throughout the year.

Cervantes' *Don Quijote* (edition of Garnier Hermanos, Paris, 1875); *Las Mocedades del Cid* de D. Guillen de Castro, edited by Ernest MÉRIMÉE, Toulouse, 1890.

*9 *Italian Elementary Course.* 3 hrs. both terms.

The aim of this course is to give the student a correct pronunciation of Italian, and such a command of grammar and vocabulary as shall lead to a gradual substitution of Italian for English as a means of instruction.

Grandgent's *Italian Grammar and Composition*; Baragiola's *Crestomazia Italiana ortofonica*.

10 *Dante's Divina Commedia, and, if time permit, selections from other authors of the Trecento.* 1 hr. both terms.

This course is only open to those who have passed through Course 9 or who have otherwise satisfied the instructor as to their fitness to take it. Along with the literary study, the practical use of the language is kept in view, the student taking regular work in composition.

11 *Provençal Language and Literature.* 1 hr. both terms.

This course is strictly literary and philological, and is open only to those who have made a scientific study of the language

and literature of France and Italy. The origin and growth of Provençal lyric poetry, Provençal and Romance metre, and Provençal grammar will be successively studied in connection with the reading of selections from the works of the Troubadours. The text-book is Crescini's *Crestomazia provenzale*, Padova, 1892.

12 *Portuguese Language and Literature.* 1 hr. both terms.

This course is offered only to students of Romance Philology. The phonology and inflection of the language are studied from the historical point of view and compared with the Spanish. In connection with this, selections are read from the poetry of the Portuguese Troubadours of the 13th century, and their relations considered to the lyric poetry of the South and North of France.

Assistant Professor CAMERON :—

13 *Molière, Life and Works.* 1 hr. both terms.

(a) Theories of Molière's life, (b) Dramatic indebtedness, (c) Dramatic development, (d) Critical study, (e) Purpose of his social satire, (f) Imitators. Collateral reading.

14 *The influence of popular language and expression on French Literature from Villon to the present.* 1 hr. 1st term.

Professor PALMER :—

Graduate instruction in other than these specified subjects relating to the history of the German language and of German literature will be given as far as may be feasible to individual students according to their several attainments and requirements.

15 *History of German Literature since 1740.*

2 hrs. both terms.

Beginning with the time of Klopstock, the development of the literature will be followed as near to the present as is feasible, with special attention to the Classical Period and the Romantic School, characteristic authors and works, and a summary view of the literature since 1832.

16 *Gothic.* 2 hrs. 1st term.

An introductory course, especially for those who intend to study historically German or English. In connection with it

there will be presented in systematic outline the phonological relations of Gothic to both earlier Indo-Germanic and later Germanic languages. Braune's *Gotische Grammatik* or Wright's *A Gothic Language Primer*, and Heyne's *Ulphilas*.

17 *Old High German and Old Saxon.* 2 hrs. 2d term.

An introductory course, especially for those who intend to study historically German or English. Braune's *Althochdeutsche Grammatik* and *Althochdeutsches Lesebuch*; Gallée's *Altsächsische Grammatik*; Behaghel's *Heliand*; and Heyne's *Kleinere altniederdeutsche Denkmäler*.

18 *Introduction to Germanic Philology.* 1 hr. both terms.

Portions of Paul's *Grundriss der germanischen Philologie* will be read, with discussions and informal lectures.

*19 *Schiller, Works and Life.* 2 hrs. both terms.

Rapid reading of plays, poems, and prose writings of Schiller, with study of his life and of his influence on German literature.

*20 *Goethe, Works and Life.* 3 hrs. both terms.

After an outline study of Goethe's life and development in connection with his lyric poems, his early prose writings, and his principal dramas, particular attention will be given to Faust, parts i and ii, the later prose works, and Goethe's important utterances in letters, journals, and conversations.

21 *Middle High German:—* 2 hrs. both terms.

Hartmann's *Nibelungenlied*; selected poems of Walther von der Vogelweide; lectures and papers.

Dr. GOODRICH:—

22 *German Literature of the XVIth Century.*

2 hrs. both terms.

Lectures and papers with special reference to the social and religious movements of the age.

Professor LOUNSBURY:—

23 *The English Literature of the XIVth Century.*

Professor BEERS:—

24 *English Literature.* 1 hr. both terms.

The history of English Romanticism from Thomson to Swinburne (1726-1890), with incidental study of the parallel move-

ments in Germany and France. The instruction is given mainly by lectures. Students are required to keep and submit notes of their reading, and to prepare topical papers from time to time.

Professor COOK :—

The strictly graduate courses offered below will be given according to circumstances and the needs of the graduate students actually in attendance; but special attention will be given to the supervision of individual research along these and similar lines.

25 *Theories of Poetry.* 2 hrs. 2d term.

A course in the theories of poetry in general, and in the principles of criticism applicable to its various departments, as the epic, dramatic, and lyric. Discussions and papers on the basis of standard works, such as Aristotle's *Poetics*, Sidney's *Defense of Poesy*, Addison's *Criticisms on Paradise Lost*, Boileau's *Art of Poetry*, Lessing's *Laokoon*, and others of similar character.

26 *Old English Poetry.* 1 hr. 1st term.

The texts used are *Judith* (Cook's edition), *Elene* (Kent's edition), and *The Battle of Maldon* (Sweet's Reader). These are read, their place in the literature examined, and questions of authorship, date, and textual criticism discussed. Ten Brink's and Wülcker's *Histories of Old English Literature* are constantly used for reference.

27 *Old English Grammar.* 1 hr. 2d term.

An exhaustive grammatical examination of some prose text is made, on the basis of Cook's *Phonological Investigation of Old English* and edition of Sievers' *Grammar for Phonology*, of the latter for Inflection, and of March's *Grammar for Syntax*.

28 *Historical English Prosody.* 1 hr. 1st term.

Schipper's *Englische Metrik* is adopted as the basis of study, but reference is made to the discrepant views of other authorities.

29 *Middle English Grammar.* 1 hr. 2d term.

An outline of Middle English Phonology and Inflection is given by means of lectures, and the knowledge thus gained is applied in a grammatical study of Chaucer, on the basis of ten Brink's *Chaucers Sprache und Verskunst*.

- *30 *History of English Literature.* 2 hrs. both terms.
An outline of the subject, on the basis of Brooke's *Primer*, Taine, Morley's *First Sketch*, and tenBrink's *Early English Literature*, with some reading of English authors at first hand. Frequent preparation of brief papers on assigned topics.
- *31 *Old and Middle English.* 2 hrs. both terms.
An elementary course in the beginnings and earlier development of the English language and literature. The first term is devoted to Cook's *First Book in Old English*. In the second term this is followed by more difficult Old English texts, and by the reading of selections from Chaucer and other Middle English writers for linguistic purposes.
- *32 *Tennyson.* 2 hrs. 1st term.
Critical study of selected poems. Tennyson's theory of life, literary art, and place among the poets of this century. Comparative readings in other authors, and frequent preparation of brief papers on assigned topics.
- *33 *Shakespeare.* 2 hrs. 2d term.
Critical study of a few selected plays. Frequent preparation of brief papers on assigned topics.

The Modern Language Club, formed of instructors and students, in the departments of English, Romance Languages, and German, holds its regular meetings on the second Saturday evening of each month for the reading and discussion of original papers and for reports of progress in the field of these studies.

VI. NATURAL AND PHYSICAL SCIENCE

Professors BRUSH and PENFIELD, and Mr. PIRSSON :—

*I *Mineralogy and Crystallography.*

Laboratory work and blowpipe analysis and the simple chemical methods for testing minerals. Laboratory work in determinative mineralogy. Lectures in descriptive mineralogy. Lectures in crystallography, supplemented by practical work in the measurement and calculation of crystals, and the determination of their optical and physical properties.

Mr. PIRSSON :—

2 *Lithology (including Microscopical Petrography).*

both terms.

History, origin, and classification of igneous rocks. Metasomatic and dynamic changes, including effects of dynamometamorphism. Laboratory methods of determination and study, chemical and microscopical. Field excursions are offered from time to time. The work is carried on mostly in the laboratory, with access to collections, and the course is open only to those whose previous training in mineralogy and geology has been sufficient to enable them to pursue the subject advantageously.

3 *Elementary Structural and Dynamical Geology.*

3 hrs. 1st half-year.

Professor WILLIAMS :—

4 *Geological History of Organisms.* 2 hrs. both terms.

This course is designed to be an introduction to the study of organisms from the standpoint of the geologist rather than that of the special anatomist. The amount and kind of organic differentiation, the relative development of organs and functions, and the systematic classification of animals into the grander divisions will be elaborated. A few selected series are studied in detail, so far as the hard parts are concerned, as illustrations of the facts of historical evolution, and all the facts presented will be used as illustrations of the various hypotheses proposed to explain the theories of the evolution of organisms.

The nature and reliability of the geological time-scale will be considered also, and the conditions of preservation of fossils and the value of their testimony regarding the character of living organisms.

Although previous knowledge of zoology is greatly to be desired, the course will be adapted to those who are beginning this study. Collateral reading of books like Lyell's *Principles of Geology*, Darwin's *Origin of Species*, Wallace's *Darwinism*, and more recent treatises on allied subjects is recommended.

5 *Invertebrate Paleontology.* 2 or 4 hrs. both terms.

The study of fossil faunas in their geological and biological relations. In preparation for either practical geological survey work or for teaching the principles of historical geology. Laboratory work, with such field work as may be necessary.

Professor BREWER :—

- *6 *Physical Geography.* 2 hrs. both terms.

This course of lectures includes the elements of dynamical geology and of natural history, so far as is necessary for an understanding of the physical geography of the globe and the distribution of species.

[For a course in Physical Geography in its relation to political history, see Political and Social Science, 18.]

Professor E. S. DANA :—

- *7 *Mineralogy and Crystallography.* 2 hrs. both terms.

Practical study of mineral species by means of blowpipe analysis and other methods ; mathematical study of crystals by the methods of analytical and spherical trigonometry, as also of their optical properties. The time is divided about equally between the two parts of the subject ; the practical exercises are prolonged to cover two hours when but little outside preparation is called for.

- 8 *Descriptive Mineralogy.* 1 hr. both terms.

Advanced course in the study of mineral species.

Professor Dana's courses will not be given in 1893-94.

Assistant Professor BEECHER :—

- 9 *Invertebrate Palaeontology.* 5 hrs. both terms.

1. The study of extinct faunas by means of collections of fossils from typical localities.

2. Systematic study of the structure, development, and affinities of one or more classes of fossil animals.

In the laboratory work, attention is given to modern methods of preparation and preservation of specimens. Open to those who have some previous knowledge of geology and zoology.

Professor A. W. WRIGHT :—

- *10 *Physics.* 2 hrs. both terms.

First-year course. Two exercises each week, chiefly practical work in the Sloane Physical Laboratory, with measurements, especially in heat, light, and electricity, each exercise occupying

two hours. As introductory to the laboratory practice, the exercises during a portion of the first term consist of recitations or discussions upon the theory and methods of physical measurements, the use of instruments, and other special topics. Laboratory facilities are also freely accorded to students of the course at other times than those of the stated exercises.

11 *Physics (Advanced course).*

Practical work in the Sloane Physical Laboratory, with instruction in the principles and methods of physical investigation, the processes and instruments of measurement, and the methods of computing and reducing results of observations. Special attention is paid to practical measurements in optics, electricity, and magnetism. The student is expected to make original investigations an important part of his work, and has the free use of the laboratory facilities for carrying them on.

For those who have already pursued course 10 or its equivalent.

Professor HASTINGS :—

12 *Physics.*

Laboratory work, supplemented by lectures on the theory of observation, with the method of least squares. Each year, some special department of physics will be selected for detailed treatment in a course of lectures and conferences. Lectures on the theory of electricity and electrical instruments occupy six months. The use of the laboratory is at the command of the student at all times.

[For courses in Mathematical Physics, see Pure and Applied Mathematics, 5-7.]

Professor JOHNSON :—

13 *The Chemical Physiology of Vegetation.* 2 hrs. 1st term.

The composition and vital processes of commonly cultivated plants.

14 *Agricultural Chemistry.* 2 hrs. 2d term.

The atmosphere, water, and soil, in their relations to farm crops; tillage; fertilizers; rotation of crops; irrigation; dairy chemistry; stock-feeding.

Professor GOOCH :—

*15 *Experimental Inorganic Chemistry.*

3 exercises both terms.

Practical laboratory work, lectures, and written exercises. An introduction to elementary chemical theory, the use of symbols and formulae, and the descriptive study of the elements and their compounds.

*16 *Experimental Organic Chemistry.* 3 exercises both terms.

An introduction to the study of the compounds of carbon. Laboratory work with lectures. Open only to those who have previously covered the ground of course 15.

*17 *Qualitative Chemical Analysis.* 3 exercises both terms.

Laboratory practice in the ordinary processes of qualitative analysis, with lectures. Open only to those who have previously covered the ground of course 15.

*18 *Quantitative Chemical Analysis (Elementary).*

3 exercises both terms.

Laboratory practice in the simpler methods of volumetric and gravimetric quantitative analysis. Open to those who take course 17, or have taken it previously.

19 *Quantitative Chemical Analysis (second course).*

3 exercises both terms.

Practice in the more complex or special processes of gravimetric, volumetric, and electrolytic analysis.

20 *Theoretical Chemistry.* 1 hr. both terms.

The reading and discussion of modern theories and current chemical doctrines. Open to students who have had sufficient preliminary training.

21 *Original Work and Research.*

(a) The study of special problems of *analytical chemistry*—either experimental criticism of known processes or constructive work looking toward the development of new methods.

(b) The study of original problems of *inorganic chemistry*—either the critical examination of reactions or the synthesis of compounds.

Professor WELLS :—

ANALYTICAL CHEMISTRY.

The analytical laboratories are open to students in term time from 9 to 1 and from 2 to 5 o'clock, every week-day except Saturday. The greater part of the instruction is given in the laboratory to each student separately, but the various classes have, in addition, one or two familiar lectures or recitations a week, in connection with the studies pursued in the laboratory.

*22 *Qualitative Analysis.* 1st term.

Embraces a study of the commonly-occurring elements in their qualitative relations, and includes a systematic course of analysis for the same. A good knowledge of elementary chemistry is a necessary preparation for this. If desired, the course will be extended to include a study of many of the rare elements.

*23 *Quantitative Analysis.*

This is open only to those who have taken course 22 or its equivalent.

(a) *Gravimetric Analysis.* Second term. Embraces a series of exercises involving a considerable variety of important methods.

(b) *Volumetric Analysis.* First term. This follows the gravimetric analysis. It includes the most important and typical methods.

(c) *Ultimate Organic Analysis.* First term.

24 *Advanced Quantitative Analysis.*

(a) *Metallurgical Chemistry.* The analysis of ores, fuels, fluxes, alloys, metals, and other furnace products.

(b) *Mineralogical Chemistry.* The analysis of minerals for scientific purposes.

*25 *Metallurgy and Assaying.* 2d term.

A course of lectures on elementary metallurgy, followed by a short course of demonstrative lectures on gold and silver assaying, with the practical application of assaying to a few typical ores.

*26 *Technical Gas Analysis.* 2d term.

A short practical course, including the principal methods.

27 *Investigations in Inorganic Chemistry.* both terms.

Opportunities are offered to those who have had sufficient preparation to make researches on analytical methods, the preparation and investigation of chemical compounds, and other scientific problems.

In addition, instruction is given, when desired, in vapor-density determination, spectroscopic analysis, and in other physical methods used in connection with chemistry.

Professor EATON :—

28 *Systematic Botany (Phænogams).*

Opportunities are offered to graduates who have already some considerable acquaintance with Flowering Plants to pursue advanced studies in the North-American flora, with regard to the identification, description, and distribution of species, and the arrangement of genera and orders. This work is conducted in Professor Eaton's private herbarium, where there are large collections of plants and an ample botanical library.

*29 *Pteridology and Bryology.* 2 hrs. both terms.

This course begins with practical work in the dissection and examination of vegetable tissues, with special reference to the structure of ferns and mosses. After some facility has been gained in this kind of work, the time is devoted to the examination of as many mosses as possible, with a view to becoming acquainted with the genera and with a large number of species. Those who take this course are expected to devote considerable time to field-work and to making collections for their own use. The course is limited to those who have taken a preliminary course in the study of flowering plants.

Dr. SETCHELL :—

30 *Microscopic Anatomy of Phænogamous Plants.*

3 hrs. 1st half-year.

Laboratory practice, lectures, and reading.

The cell-structure of the several divisions of Phænogamous Plants will be studied in suitable types. Special attention will be given to Cytology and the details of the processes of reproduction.

31 *Elementary Vegetable Physiology.* 3 hrs. 2d half-year.

Laboratory practice, lectures, and reading.

32 *Morphology and Development of the Cryptogamous Plants.*

3 hrs. both terms.

Laboratory practice, lectures, and reading.

Types of the various groups of Cryptogams will be studied in the laboratory, and their structure, development, and relationships discussed in informal lectures.

33 *Mycology and Phycology.* 3 hrs. both terms.

Laboratory practice and reading. Intended for students desiring to study some special groups of the lower cryptogams as regards the identification, distribution, and economic value of the different species.

Professor VERRILL :—

34 *Zoology, including Comparative Zoology, Morphology, and Embryology.*

Laboratory practice, recitations, readings, and lectures. The laboratory work is varied according to circumstances, in order to accommodate, as far as possible, those students who may wish to pursue special branches. A large part of the time is usually devoted to comparative anatomy, morphology, and systematic zoology. Ample collections in the Peabody Museum, representing all classes of animals, are available for instruction, while the proximity to the sea makes it easy to provide fresh or living examples of most classes of marine animals for study and dissection.

Professor S. I. SMITH :—

*35 *Elementary Anatomy and Histology.* 4 hrs. 1st term.

Four exercises, of a minimum of two hours each. Laboratory work and informal lectures. The time is devoted principally to dissections of the frog, and work with the microscope on the lower plants and animals, and in vertebrate histology, with special reference to the rudiments of biology and the elements of the morphology of animal tissues. The student is required to make microscopical preparations, keep careful records of his work, and pass frequent examinations.

*36 *Comparative Anatomy and General Biology.* 6 hrs. 2d term.

An elementary course similar to the last, but more extended. The anatomy and histology of the higher animals are studied in more detail, microscopical preparations of the principal tissues and organs are made and examined, the general principles of the morphology of the tissues are illustrated, and the student is specially drilled in distinguishing the different tissues under the microscope. Near the end of the term, instruction in embryology, with special reference to human morphology, is given by a short course of lectures.

37 *Comparative Anatomy and General Biology.*

Graduate students, who have had sufficient elementary training, are received in the Sheffield Biological Laboratory and are provided with special advanced courses of instruction adapted as far as possible to the particular wants of the individual student. Such courses may cover either or both terms and will require at least three hours of laboratory work per day. To such students the laboratory is open five days a week.

Professor CHITTENDEN :—

38 *Physiological Chemistry and Physiology.*

Graduate students having sufficient knowledge of analytical and organic chemistry and elementary physiology are received into the Sheffield Biological Laboratory at the beginning of the academic year, where they can pursue a course in physiological chemistry, physiology, and toxicology, extending throughout the entire year. The course necessitates, on an average, four hours of laboratory work per day, and attendance on lectures and recitations three or four times per week. Opportunities are also afforded for the carrying on of original investigations, either in physiological chemistry or in experimental toxicology, and to students qualified for such work the laboratory is open during the entire day.

Students desirous of studying any special subject in physiological chemistry and having but a limited amount of time are also received, provided they are qualified by previous work to pursue the study advantageously.

*39 *Physiology.*

1 hr. both terms.

Huxley's *Lessons in Elementary Physiology*, with occasional lectures and illustrative experiments.

*40 *Physiological Chemistry.*

4 hrs. 2d term.

Four exercises a week, of a minimum of two hours each, in the laboratory of physiological chemistry. The time is devoted mainly to a study of the chemistry of the connective, contractile, and nerve tissues, of the chemical processes of salivary, gastric, and pancreatic digestions, and so far as the time allows, of other subjects connected with the physiology of nutrition and the chemistry of the excretions.

The student must bear the expense of gas, flasks, etc., which should not exceed ten dollars.

VII. PURE AND APPLIED MATHEMATICS

Professor NEWTON :—

- *1 *Integral Calculus and Mechanics.* 3 hrs. both terms.
Mean values and probability ; differential equations ; analytical statics and dynamics.
- *2 *Shooting Stars and Meteors.* 1 hr. both terms.
The mathematical theories of these bodies, and the treatment of the observations of them.
- 3 *Celestial Mechanics.* 1 hr. both terms.

Professor CLARK :—

- 4 *Determinants and Differential Equations.*
2 hrs. both terms.

The short courses in the above subjects are designed especially for the graduate students in the departments of Engineering in the Sheffield Scientific School, whose time is mainly occupied with work in those departments.

Professor GIBBS :—

- *5 *Vector Analysis.* 2 hrs. 1st term.
Elementary course, in which the simpler problems of geometry, kinematics, and mechanics are treated by vector methods. The matter taught is not entirely unlike that usually given in courses in quaternions, but the method followed is in some respects nearer to Grassmann's than to Hamilton's.
- *6 *Vector Analysis.* 2 hrs. 2d term.
Advanced course, including differentiation with respect to position in space, the theory of the potential and allied functions, and that of linear vector functions. This course is especially designed for an introduction to the study of mathematical physics, and is open only to those who have taken the preceding.
- *7 *Multiple Algebra.* 1 hr. both terms.
The object of this course is to give some idea of the methods and results of the principal non-arithmetical algebras, especially of the *Ausdehnungslehre* and the algebra of matrices. It is intended for such students as have already some familiarity with the algebra of vectors, derived from the preceding courses or from the study of quaternions.

8 *Electricity and Magnetism.* 2 hrs. both terms.

This course is based on Maxwell's Treatise. Greater prominence is, however, given to vector methods. It will be supplemented in the following year by one on the electromagnetic theory of light, including the subjects of reflection, double refraction, and the dispersion of colors.

9 *Theoretical Thermodynamics.* 2 hrs. both terms.

This course consists of two distinct parts. The first relates entirely to the sensible properties of matter, being a development of the consequences of the two fundamental laws of thermodynamics, as affording a general theory of physical and chemical equilibrium, and as giving shape to the investigation of the sensible properties of matter. The second part is essentially an application of the theory of probabilities to molecular mechanics, in which the notions of temperature and entropy and the second law of thermodynamics are deduced from *a priori* considerations.

Professor C. B. RICHARDS :—

MECHANICAL ENGINEERING.

This course, arranged for candidates for the degree of Mechanical (or Dynamical) Engineer, is also open to special graduate students, who will be allowed in certain cases to take selected parts. The leading topics are :

10 *Applied Mechanics.*

Including graphical methods in applied kinematics, and in the investigation of mechanisms working with friction ; graphical determinations of the accelerations of the moving parts of machines ; the strength of materials as affecting the proportions of machine elements ; the applications of the principles of hydraulics to the construction and working of turbines and pumps.

11 *Thermodynamics.*

Applications to the compound steam-engine, air compressors and compressed air motors, engines worked by volatile vapors, refrigerating machines, the warming and ventilation of buildings.

12 *Machine Design.*

In this course the student is engaged in practical exercises under the guidance of the professor in charge, investigating machinery, and designing and making working-drawings, specifications, and estimates for machines and manufacturing plant. In

addition to the study of machines in general, either of the following subjects will (at the option of the student) receive particular attention : (a) Marine engineering ; (b) Railway engineering ; (c) Pumping machinery and plant ; (d) Machinery and plant for manufacturing. The student is required to make complete drawings, from new designs, of at least one important piece of machinery under one of these subjects. A compound marine engine and boilers, a locomotive, a turbine, driving centrifugal pumps, a blowing-engine for an iron-furnace, are examples.

Candidates for the degree of Mechanical Engineer are required to take also a course in mathematics, to sustain a final examination, and to present a satisfactory thesis on a subject approved by the professor in charge of the course. Lectures on industrial legislation and finance, and lectures on the higher mathematics, are open to all students in this course.

Professor DuBois :—

CIVIL ENGINEERING.

This course offers instruction for advanced graduate students as well as for those students who may be regular candidates for the degree of Civil Engineer.

It embraces the following topics :

13 *Mechanics applied to Engineering.*

Including a course in hydraulics, with reference to the various problems which arise in connection with water-supply, water-power, or irrigation ; the efflux of water, flow through orifices and mouthpieces and over weirs, simple and submerged ; questions of overflow and land damage ; the effect of friction, contraction, enlargement, bends, valves, etc. ; measurements of the discharge of pipes, rivers, and streams ; the theory and design of water-motors ; a course in thermodynamics and its practicable application to hot-air, gas, and steam engines.

14 *Construction and Design.*

Including the strength and properties of materials, construction and design of bridges, roofs, foundations, retaining walls, dams and embankments, masonry, arches, sewerage and drainage, improvement of rivers and harbors, specifications and contracts, and the preparation of designs and working-drawings.

Candidates for the degree of Civil Engineer are required to take, in addition, a selected course in mathematics, practical astronomy, and when the facilities in the physical laboratory

permit, a course of laboratory work, under the superintendence of the professors in charge. They are also required to sustain a final examination, and to present a satisfactory thesis accompanied by appropriate designs, upon a subject approved by the professor in charge of the course.

To special students, not candidates for the degree of Civil Engineer, a selection of special topics is allowed. The lectures of the Department upon railroad administration, industrial legislation, and finance, and upon the higher mathematics, are open to all the students in this course.

Mr. BARNEY :—

12 *Railway Surveying.* Three weeks in September.

A preliminary line for a railroad is run out, and from the contour map so obtained a final line is located, staked out, and cross-sectioned, and estimates are made for construction. The field-work begins the first Monday in September and occupies the entire time for three weeks.

14 *Geodesy and Practical Astronomy.*

Methods of observation, based on measurements, triangulation field-work ; theory of least squares, adjustment of observations, and computation of geodetic latitudes, longitudes, and azimuth. The study of practical astronomy embraces the use of the sextant and engineer's transit with solar attachment for determining time, latitude, azimuth, and needle variation.

Professor PHILLIPS :—

*15 *Analytical Geometry.*

A course in plane and solid analytical geometry, open to those who have an elementary knowledge of the subject. Newcomb's *Analytical Geometry* is made the basis of instruction. The work of the text-book is supplemented by lectures on the various methods of discussing the general equation of the second degree ; the use of determinants and trilinear coördinates ; methods of tracing algebraic and transcendental curves ; and the study of models of mathematical surfaces.

16 *Curves and Cones.* 1 hr. both terms.

Discussion of equations of the second and third degrees. The first half of Salmon's *Conic Sections*, and Newton's Lines of the third order will be studied. Method of tracing curves by the intersection of mathematical surfaces.

- 17 *Higher Curves.* 1 hr. both terms.
The last part of Salmon's *Conic Sections* and Salmon's *Higher Plane Curves*, form the basis of instruction.
- 18 *Theory of Functions.* 1 hr. both terms.
Harkness and Morley's Treatise.

Assistant Professor BEEBE :—

- *19 *Surveying.* 2 hrs. both terms.
Field-Work: 1st term: Land surveying; use of chain, compass, and surveyor's transit; construction of verniers and determination of instrumental errors. 2d term: Leveling and topography; use of surveyor's level and plane table; determination of grade-lines, contour, cut and fill.
Office-Work: during the winter; platting surveys from field notes; map-drawing, plane and topographical; shading, lettering, and enlargement of maps; calculations of areas, use of traverse tables.
Recitations during the year from Gillespie's or Johnson's *Surveying*.
- *20 *Practical Astronomy.* 2 hrs. 1st half-year.
Observatory work with astronomical transit and chronograph for determination of sidereal and standard time; and with sextant and theodolite for determination of latitude and azimuth. Numerical computations for reduction of observations. Recitations from Loomis's *Practical Astronomy*.
- *21 *Geodesy.* 2 hrs. 2d half-year.
Measurements and computations for a secondary triangulation from a base line of the U. S. Coast Survey; reductions to center; distribution of errors; measurement of a base of verification.
Open only to those who have taken course 19, or its equivalent.
- *22 *Descriptive Astronomy.* 1 hr. both terms.
Young's *General Astronomy*; Clerke's *History of Astronomy*.

Mr. DUTCHER :—

- *23 *History of Mathematics.* 1 hr. 1st term.
Course in investigation under the supervision of the instructor, with occasional papers on assigned topics.

- *24 *Higher Trigonometry.* 2 hrs. 1st term.
Exponential and logarithmic series; DeMoivre's theorem;
hyperbolic functions; errors of observation, etc.
- *25 *Modern Geometry.* 2 hrs. 2d term.
Projective properties of the point, line, and conic. Cremona's
Projective Geometry.

The Mathematical Club holds fortnightly meetings, at which are presented sketches of the history of mathematical development and inventions, summaries of articles in the current periodicals and other publications in pure and applied mathematics, descriptions and models of new apparatus, together with the original investigations of the instructors and advanced students in this department of study.

VIII. THE FINE ARTS

Professor WEIR :—

- 1 *Technical Course in Painting.* 2 hrs. both terms.
This course consists of two exercises a week of two hours each. The course consists principally of studies in water-color painting, and includes lectures on the grammar of art, on painting, sculpture, and architecture, technically considered, with a critical account of the various schools and their representative masters. The lectures are fully illustrated by the use of the hydro-oxygen lantern.
- 2 *Course in Modeling.* 2 hrs. both terms.
Two exercises a week of two hours each. The course consists in modeling from the antique and from the living figure, and is supplemented by the lectures given in course 1.

Professor HOPPIN :—

- 3 *History of Art.* 2d term.
A course of lectures on Greek art, sculpture, architecture, and painting, with special reference to Greek thought and literature. The lectures of the current year will be a continuation, not re-

petition, of last year's course, and will embrace the monumental period of Greek sculpture, mosaic, and vase and mural painting. If time permit, there will be an additional course of lectures on Egyptian art, and recent archaeological discoveries in Egypt.

Professor NIEMEYER :—

4 *Course in Drawing.* 2 hrs. both terms.

This course consists of two exercises a week of two hours each in drawing from the antique and from life, and also in sketching from nature out of doors. Exercises in original composition are required from time to time. It is the aim of this course to teach the fundamental principles of art, and to make the student familiar with the use of pen and pencil.

The work in drawing is supplemented by lectures in linear perspective and the analysis of the muscular movements of the human body as expressed in the external forms.

IX. MUSIC

Professor STOECKEL :—

*1 *Harmony.* 2 hrs. both terms.

Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody.

*2 *Counterpoint, Canon, Fugue.* 2 hrs. both terms.

Counterpoint: single, double, triple, quadruple. Imitation, Canon, Fugue.

*3 *Forms.* 1 hr. both terms.

Motive, Phrase, Period. Part-song, Rondo, Sonata. Orchestral Forms.

Lectures are given on the *History of Music, sacred and secular. Aesthetics. Analysis:* Oratorio, Opera, Chamber-music, Symphony. *Biography:* Palestrina, Bach, Händel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

X. PHYSICAL CULTURE

Dr. ANDERSON and Dr. SEAVER :—

2 hrs. both terms.

This undergraduate course is designed for those who intend to teach physical culture or to direct departments of physical education in institutions of learning. The work comes under two general branches as follows :

Dr. SEAVER :—

*1 *Physiology.*

1 hr. both terms.

This work consists of one recitation a week during the year. The first term is devoted to biology and elementary physiology. The second term is devoted to human physiology ; special attention being given to a study of the circulation, respiration, digestion, and excretion. The hygienic importance of these topics is carefully studied.

Dr. ANDERSON :—

*2 *Theory of gymnastics.*

1 hr. both terms.

Under this head are discussed (a) the scientific basis of physical training ; (b) history of gymnastics and growth of the various systems ; (c) means employed, such as apparatus and appliances ; (d) physical examinations and measurements ; (e) pedagogy of gymnastics ; (f) practice in teaching gymnastics.

Three hours a week are required in special gymnastic drill.

SCHOOL OF THE FINE ARTS

COUNCIL

The Council of the School consists of the President of the University, the permanent officers of the School, and four members by election : Donald G. Mitchell, LL.D., Edward E. Salisbury, LL.D., J. Davenport Wheeler, Ph.B., and William W. Farnam, M.A.

FACULTY

Rev. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT

JOHN F. WEIR, N.A., M.A., *Director, and Professor of Painting and Design*

JAMES M. HOPPIN, D.D., *Professor of the History of Art*

JOHN H. NIEMEYER, M.A., *Professor of Drawing*

JOHN P. C. FOSTER, M.D., *Instructor in Anatomy*

_____, *Instructor in Architecture*

GEORGE H. LANGZETTEL, *Librarian and Clerk*

ORGANIZATION AND COURSE OF STUDY

The School aims to provide thorough technical instruction in the Arts of Design, viz : Drawing, Painting, Sculpture, Architecture, and Copperplate Etching ; and to afford a knowledge of such branches of learning as relate to the Philosophy, History, and Criticism of Art. As a professional School of Art the aim is to furnish a thorough course of study in the practice of the studios, and as a department of the University to provide instruction in the Fine Arts as a constituent part of a scheme of general culture. These departments, of Practice and Criticism, may be regarded as distinct or correlative.

THE TECHNICAL COURSE

The technical instruction, for professional students, is based upon methods well adapted to discipline the faculties and ground the pupil in the elements and fundamental principles, which constitute a grammar of Art, as a foundation for all forms of special application. This instruction is arranged as follows :

IN DRAWING, the work is distributed over a three years' course. During the first year the practice of the studio is confined to drawing from the "Antique," from plaster casts ; during the second year, to drawing from casts and the living model ; and during the third year, to drawing from the living model, nude and draped. The classes under the supervision of the Instructor in this department are the antique, portrait, nude-model, and sketching classes. Students showing the requisite proficiency in any class, will be advanced to the work of the second or third year according to individual ability. Instruction in this department precedes all special courses in the various branches of Art ; no pupil is allowed to enter any of the advanced classes without this necessary qualification in that degree of proficiency which is deemed essential as a preliminary ground for such studies. Lectures on the principles of decoration, as applied in the various branches of Decorative Art, are included in this department.

IN ANATOMY, instruction is given in the form of lectures, and by drawings made from specimens and casts. The lectures are divided into two courses, for elementary and advanced classes. Each course consists of twenty lectures, one lecture a week to each class, continuing through the Winter and Spring Terms. The elementary course is devoted to the study of such portions of the human body as manifestly affect the external forms, the aim being to familiarize the pupil with the characteristics of those parts, independently of their combined action in modifying the external forms. Drawings of these parts are made by the pupils, in connection with the subjects discussed by the lecturer. The advanced course includes the whole structure of the human form in its plastic anatomy and mechanism. The skeleton and muscular system are viewed as a whole, and the modification of the external forms studied in action and repose. The subjects of proportion, equipose and motion, and expression, are studied, and original drawings required in illustration, made from life, or from Greek sculptures, by reducing the same to their anatomical structure by the imagined removal of the integument.

IN PERSPECTIVE, the instruction is likewise given in the form of lectures, divided into two courses of twenty lectures each, for an elementary and an advanced class, illustrated by examples drawn on the blackboard, explaining the principles under discussion. The lectures are supplemented by practical exercises. The student is required to work out examples in the interim between the lectures. The elementary course includes the principles of plane geometry underlying perspective,—simple projections, or plan and elevation drawings. Objects are treated with reference to their true dimensions, as preliminary to their correct representation on a flat surface, as seen in perspective, at various distances, and from different points of view. The advanced course includes the study of shadows and reflections, and the application of the general principles of perspective to interior and exterior views. The pupil is required to work out problems in illustration of all the principles involved in linear perspective in its application to the various branches of art.

IN PAINTING, the work is divided into an elementary and an advanced course of study. The first studies are devoted to the acquisition of a knowledge of the elements of technical practice, by painting from still-life. When the pupil has acquired some knowledge of the means in representing objects in color, as to their values and relations, the remainder of the course is given to studies of the living model, in portrait, figure, and composition. This is continued while the pupil remains in the School. The course in painting implies, on the part of the pupil, a requisite knowledge of drawing, and drawing from the living model is continued throughout the course in connection with the work in color. The practice of the studio is supplemented by illustrated lectures on Color, Chiaroscuro, Composition, and such other special topics relating to the principles and means of Art as are comprehended in its theory and practice.

IN MODELING, a course is provided, including the anatomical lectures, and drawing. The work in this branch of instruction consists in first modeling in clay, from casts of Greek fragments, the head and other extremities of the human form, and then the whole figure. When the student has sufficient command of the method and means, the rest of the course is devoted to modeling from the living subject.

IN ARCHITECTURE, the course includes drawing, as provided in that special department in its elementary instruction, as well as the course in isometric projection and perspective. Under the instructor in Architecture, studies are made from notable examples of the various orders and styles, in chronological order, with original projects in illustration to be worked out by the student. The means and methods

of preparing plans, elevations, sectional and working drawings, and perspective views in india-ink and water-color, are comprehended in the elementary part of this course. Arrangements may be made with other Departments of the University, by which students in Architecture can obtain the requisite instruction in mathematical subjects having a direct bearing on this art, including plane geometry, stone-cutting, the nature and strength of materials, and the principles of construction and engineering.

The course includes a general and comprehensive view of the historic development of the various architectures, with a comparative analysis of the same with respect to their principles of construction and decoration.

IN COPPER-PLATE ETCHING, a course is provided, and a room set apart for this special study, containing all the necessary appliances of this art, including a press.

COURSE IN THE HISTORY AND CRITICISM OF ART

The instruction in this department includes courses of lectures by the various Instructors of the School, arranged to include professional students in regular course, and classes from other departments of the University where it is recognized as an "elective" study.

IN THE HISTORY OF ART, the course is as follows: 1. *The Origin and Philosophy of the Art* principle—books chiefly referred to, Hegel, Lotze, Ruskin; 2. *Egyptian Art*—Perrot and Chipiez' "Histoire de l'Art de l'Antiquité," etc.; 3. *Oriental Art*, with special reference to its influence on Greek Art—Schnaase, Fergusson, Perrot and Chipiez, etc.; 4. *Greek Art*, Principles of Greek Art; Pelasgic construction, and the three orders of Greek Architecture; Greek Sculpture, including the Archaic, Pheidian, and Naturalistic Periods, and the Graeco-Roman, with recent researches at Olympia and other places; *Greek Painting*, Ceramic, Mosaic, and Mural—Winckelmann, Lessing, Ottfried Müller, J. Overbeck, Schnaase, Friedrichs, Charles Blanc, and Woltmann; 5. *Roman Art*, Fergusson, Dennis, Emil Braun, etc.; 6. *Beginnings of Christian Art*, classic sources and types; Religious Art; early Christian Painting and Iconography; early Christian Architecture—Lindsay, Fergusson, etc.; 7. *Byzantine Art*, Oriental, Christian, and Saracenic forms—Fergusson, Ruskin, etc.; 8. *Medieval Art*, Romanesque and Lombardic; Tuscan, Southern and Northern Gothic—Viollet-Le-Duc, Ruskin, Fergusson, etc.; 9. *The Renaissance*;

rise of the Florentine School, and the Schools of Sienna, Umbria, Lombardy, Rome, and Venice—Vasari, Lanzi, Kugler, Ruskin, Crowe and Cavalcaselle, Symonds, etc.; 10. *Modern Art*—Schools of Spain, Holland, Germany, France, and England; the Pre-Raphaelite, Romantic, and Impressionist movements; Art in America. The lectures are illustrated by means of the hydro-oxygen lantern.

IN THE PRINCIPLES AND MEANS OF ART, a course of lectures is provided, fully illustrated, embracing the subjects of Line, Chiaroscuro, Color, Composition, and Expression,—following the path of the artist in his work. A course of lectures discussing the technical methods of the Painter, the Sculptor, the Architect, and the Engraver, including an historic account of the technical development of these arts, is also provided.

The regular prescribed course of study, for professional students, covers a period of three years, but pupils are encouraged to remain in the School and pursue advanced studies after the expiration of the prescribed term. The fees are at the rate of ten dollars per month, with an annual fee of five dollars. No pupil is received for a term of less than three months. The tuition fee for a fourth year's attendance is one-half the usual rate; pupils remaining for a longer period are classed as "honorary students;" as such they are exempt from the payment of a tuition fee, but are charged an annual fee of ten dollars. The School is open to both sexes; no pupil is received under fifteen years of age. All applications for admission should be made through the Director. The School opens on the 1st of October, and the closing exercises are held on the 1st of June. At the end of the School-year an exhibition of the work of the various classes of pupils is held, continuing open through the summer months.

AN ELECTIVE COURSE is provided for the Junior and Senior Classes in the Academical Department, as set forth in the Prospectus of Elective Studies in that Department of the University. Also, a special course in FREE-HAND DRAWING is arranged to meet the requirements of students in the Sheffield Scientific School, extending through the first term of the College year.

Members of the Undergraduate Departments of the University may enter the Art School, and enjoy all its privileges, as "Special Students," on the payment, in advance, of an annual fee of twenty-five dollars.

CERTIFICATES are awarded to pupils remaining in the School through the regular course of three years; and the Degree of BACHELOR OF FINE ARTS is conferred by the University upon those students who have fulfilled the requirements of a prescribed course of advanced studies in the several departments of instruction, and have submitted an approved original composition in painting or sculpture, and a satisfactory thesis on some topic relating to the Fine Arts.

Students from other Art Schools, who have passed through the requisite elementary course in art, may enter this advanced course, ending in the conferring of the above degree, on passing the requisite examinations.

The "ETHEL CHILDE WALKER PRIZE," the income from a foundation of two hundred dollars, is awarded annually, under certain restrictions, to the most deserving pupil in the professional department.

THE ART LIBRARY, containing a collection of technical hand-books, current art-periodicals, and portfolios of etchings and engravings, is open, during specified hours, for the use of students. The pupils of the School are entitled to the use of the University Library, and to such other privileges, under the usual restrictions, as are granted to students in the other Departments.

THE COLLECTIONS embrace the "Jarves Gallery of Italian Art," numbering one hundred and twenty-two paintings dating from the 11th to the 17th centuries; the "Ehrich Gallery of Dutch and Flemish Art," numbering one hundred paintings; the "Trumbull Gallery" of historical portraits and other works, numbering fifty-four pictures; a collection of contemporaneous art, numbering about fifty paintings; a small collection of original sketches by old masters; a collection of about one hundred and fifty casts and marbles, representative of the various periods of Greek

and Renaissance Art; a valuable collection of Chinese porcelains and bronzes, loaned by Mr. Frederick Wells Williams; a series of very valuable Belgian wood-carvings of the 16th century, deposited in the School by Mrs. A. C. Alden; and a collection of Braun autotypes, and other reproductions, numbering about two hundred.

The Collections of the School are open daily, without charge, from 1 to 5 P. M., during term-time; also, during the summer vacation from 9 A. M. to 6 P. M., when a fee of twenty-five cents is charged.

The Art Building was erected in 1864, by Mr. Augustus R. Street (Yale College 1812), of New Haven, at a cost of about \$220,000. The School was partially endowed, to the extent of \$75,000, by Mrs. Street, who also made other gifts in aid of its object.

MUSICAL DEPARTMENT

FACULTY

Rev. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT

GUSTAVE J. STOECKEL, Mus.D., *Professor of Music*

The work in this Department is divided into an elementary and an advanced course of study. The Department is open to undergraduates and graduates, and also to special students. Admission is without distinction of sex.

The elementary studies include the subjects enumerated below as Course 1, and that part of Course 3 which relates to the primary forms. At the close of the academical year, students who have completed this course, may become candidates for a *Certificate of proficiency in harmony* by passing an examination—conducted partly in writing and partly *vivâ voce*—in four-part harmony, in the history of music, and the structure of primary forms. An analysis of one of the classical works, and an original composition illustrative of such an analysis in primary form, must also be presented.

The advanced course of study comprises the subjects in Courses 2 and 3. It is open to such as have passed an examination for a Certificate of proficiency in harmony. Members of the classes in this course may at the end of the year become candidates for the degree of *Bachelor of Music*. The candidate will be required to pass an examination before a Board of Examiners, appointed by the Corporation of the University. A satisfactory Certificate of proficiency in harmony and one of proficiency in any two of the following languages: Greek, German, Latin, French, Italian, must be deposited with the Professor of

Music, also a composition in one of the forms designated by him. The examination will be in counterpoint, canon, fugue, and in the larger forms of musical composition.

The fee for instruction is one hundred dollars per year.

The fee for a degree is ten dollars.

COURSES OF INSTRUCTION

- 1 *Harmony.* 2 hrs. both terms.
Acoustics. Intervals. Chords with inversions and combinations. Modulation. Non-harmonic notes. Suspension. Accompaniment of a melody.
- 2 *Counterpoint, Canon, Fugue.* 2 hrs. both terms.
Counterpoint: single, double, triple, quadruple. Imitation, Canon, Fugue.
- 3 *Forms.* 1 hr. both terms.
Motive, Phrase, Period. Part-song, Rondo, Sonata. Orchestral Forms.
Lectures are given on the *History of Music, sacred and secular, Aesthetics. Analysis*: Oratorio, Opera, Chamber-music, Symphony. *Biography*: Palestrina, Bach, Händel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

DEPARTMENT OF THEOLOGY

(YALE DIVINITY SCHOOL)

FACULTY AND INSTRUCTORS

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
REV. GEORGE E. DAY, D.D., *Dean of the Faculty*
REV. SAMUEL HARRIS, D.D., LL.D., *Professor of Systematic Theology*
REV. GEORGE P. FISHER, D.D., LL.D., *Professor of Ecclesiastical History*
REV. LEWIS O. BRASTOW, D.D., *Professor of Homiletics and the Pastoral Charge*
REV. EDWARD L. CURTIS, PH.D., D.D., *Professor of the Hebrew Language and Literature*
REV. GEORGE B. STEVENS, PH.D., D.D., *Professor of New Testament Criticism and Interpretation*
REV. WILLIAM F. BLACKMAN, PH.D., *Professor of Christian Ethics*
FRANK C. PORTER, B.D., PH.D., *Professor of Biblical Theology*
REV. ARTHUR FAIRBANKS, PH.D., *Lecturer on Social Ethics and the Philosophy of Religion*
SAMUEL S. CURRY, B.D., PH.D., *Instructor in Elocution*
GUSTAVE J. STOECKEL, MUS.D. (*University Professor of Music*), *Instructor in Vocal Music*

SPECIAL LECTURERS

- PROFESSOR A. V. G. ALLEN, D.D., of Cambridge, Mass. (subject to be announced)
REV. EDWARD B. COE, D.D., of New York City, *On the Value to a Minister of an Acquaintance with English Literature*
REV. SIMON J. MCPHERSON, D.D., of Chicago, Ill., *On City Evangelisation from the Standpoint of the Church*
LEONARD J. SANFORD, M.D., *On the Preservation of Health*

The present annual term of study, commencing on Thursday, September 28, 1893, will continue until the third Wednesday in May, 1894, when the Anniversary and the Annual Meeting of the Theological Alumni are held. Blank forms of application for admission may be obtained by addressing the Secretary of the Faculty, Professor George B. Stevens, or any of the other Professors.

CONDITIONS OF ADMISSION

The Seminary is open, on equal terms, to students of every Christian denomination. The conditions of admission are membership in some evangelical Church, or other satisfactory evidence of Christian character, and a liberal education at some College or University, or, in exceptional cases, an equivalent preparation for theological studies. In all such exceptional cases the applicant will be examined in the Greek language. He may also, at the discretion of the Faculty, be examined in other branches of knowledge, in order to determine whether he is prepared to pursue theological studies.

Some knowledge of the Hebrew language on the part of those entering the Junior class is desirable, and for all who have made sufficient progress, advanced instruction is provided.

Applicants for admission from other Theological Institutions whose course of study is the equivalent of that pursued in this institution, will be received *ad eundem*.

It is expected that every student will be present promptly at the beginning of the session. Rooms are assigned in the order of application, but no room is reserved for any applicant who does not appear within one week after the opening of the term.

COURSE OF STUDY

THE COURSE OF INSTRUCTION occupies three years, and is arranged in the following order :

REQUIRED STUDIES IN JUNIOR YEAR

Professor DAY will lecture once a week on the Encyclopedia and Literature of Theology, including a survey of the various branches of Biblical Literature, and an account, more or less extended, of the prominent writers and their works in the several departments of theological science.

Professor HARRIS will lecture twice a week on the Philosophical Basis of Theism, and the Self-Revelation of God.

Professor CURTIS will give instruction five times a week in the grammatical principles of the Hebrew language in connection with the first eight chapters of Genesis, with the use of Harper's *Introductory Hebrew Method* as a text-book. In addition to this preliminary work the class will read critically the remainder of Genesis and Exodus i-xxiii with the study of Hebrew Syntax with reference to Gesenius's *Hebrew Grammar*. Exercises will also be given in sight-reading. Provision will be made for the instruction of an advanced section in Hebrew, and students who so desire will receive special instruction in the examination of the theories and results of Hexateuchal criticism. A course for the entire class will be given, once a week, in Old-Testament Introduction.

Professor STEVENS will give instruction four times a week in the Greek New Testament. The studies of the year will embrace the following subjects: General Introduction to the New Testament, including the peculiarities of Hellenistic Greek, the preservation of the New Testament in manuscripts, and their use in textual criticism; the Synoptic Gospels, studied on the basis of Mark, with special attention to the discourses and parables of our Lord; the first eight chapters of the Acts of the Apostles; the life and work of the Apostle Paul as recorded in the Acts and reflected in his letters, and the critical interpretation of one or more of his principal Epistles. Essays on themes connected with these studies will be prepared by the students and discussed in the presence of the class.

Professor BRASTOW will meet the class twice a week during the second half of the year. He will give a course of introductory lectures on Practical Theology, including its proper scope, its relation to other branches of Theology, the Christian conception of the Church, its final purpose as related to the Kingdom of God, its organization, the marks of its visibility, the ministerial calling, and unification of ministerial functions in the Christian pastorate. He will also lecture on and conduct critical exercises in the use of the Topic in preaching, making Claude's Essay upon the Composition of a Sermon a partial basis for the work.

Dr. FAIRBANKS will lecture twice a week during the first half of the year on Comparative Religion. (*a*) Two or three types of religion among uncivilized tribes (the North American Indians and the Negroes) will be studied, and the different theories as to the Origin of Religion will be criticised. (*b*) Under the History of Religion, the religions of India and Persia will be studied, and on this basis the effort will be made to trace some of the laws that govern the development of religion, and the factors which tend to aid or to hinder such development. (*c*) The Phenomenology of Religion, including a discussion of rites and ceremonies, objects of worship, etc., and the connection with these of the real development of religion.

REQUIRED STUDIES IN MIDDLE YEAR

Professor HARRIS will lecture five times a week on Systematic Theology. This course will include a full and systematic investigation of the doctrines of Christianity, and of existing questions and controversies concerning them. The subjects will be treated in the following order: The Attributes of God; The Trinity; God the Creator, and his end in Creation; God's Providential Government; God's Moral Government; Sin; Redemption—the Atonement, Regeneration, Justification by Faith; the Spiritual Life; the Kingdom of Christ on Earth, its Progress and Triumph; Eschatology; the Christian Church. Examinations on the topics discussed will be connected with the lectures, and entire freedom of question and discussion at every lecture is invited.

Professor FISHER will give instruction three times a week on General Church History, embracing especially the branches of the subject which are not included under the History of Doctrine. They comprise the following topics: The Nature, Divisions, and Sources of Church History, with a Review of the Literature on the subject; the Old or Preparatory Dispensation in its relation to Christianity; the condition of the Græco-Roman World at the Introduction of the Gospel; the Establishment of Christianity, and the Conflicts of the Apostolic Age; the spread of Christianity, including especially the Conversion of the Roman Empire and of the Teutonic Nations; the Changes in Ecclesiastical Polity in the Early Centuries; the Organization of Latin Christianity under the Papacy; the relations of the Papacy and the Church to Civil Society in the Middle Ages; the Protestant Reformation, with its Causes and the Systems of Polity adopted by the different Protestant Churches; Christian Life, and its Characteristic Features in the Successive Eras (including the Rise and Subsequent History of Monasticism); the History of Christian Worship.

Professor CURTIS will read with the class twice a week selections from the Poetical and Prophetical Books of the Old Testament. Special attention will be paid to exegesis. Original work of this character will be required of the students.

Professor STEVENS will lecture twice a week during the first half of the year on Special New-Testament Introduction. In connection with this course those books of the New Testament which have not been studied in the Junior year will be analyzed, their occasion, aim, and peculiarities will be described, and their course of thought carefully traced.

Professor PORTER will lecture twice a week during the last half of the year on the Biblical Theology of the Old Testament. The aim will be to present a general view of the religious institutions and of the ethical and religious conceptions of Israel in their beginnings and in the historical course of their development. Special attention will be given to the religious faith and work of the Prophets, to the significance of the Exile, and to the character of post-exilic Judaism, including its last pre-Christian stages.

In addition to the above courses, students in the middle year are required to choose one of the elective courses from the list (page 199) and are permitted to take two of these courses if they maintain a satisfactory standing in the required studies.

REQUIRED STUDIES IN SENIOR YEAR

Professor BRASTOW will give instruction four times a week, by lectures and critical exercises, in different branches of Practical Theology, as follows: he will lecture three times a week during the first half of the year on Homiletics, and once a week will conduct a class exercise in the criticism of sermons and plans of sermons. It is proposed to make these practical exercises a prominent feature in the course. He will, also, give private instruction, at least once during the year, to each member of the class in connection with the criticism of sermons, and will give personal aid in the study of Homiletical and General Literature. He will lecture three times a week during the last half of the year, upon Catechetics, Liturgies, Church Government, the missionary work of the Church, the relation of the Church to the family, the relation of the Church to the State, and the work of the Church as related to the different branches and methods of education and to problems of moral reform. He will also conduct class discussions of questions of practical interest relating to the work of the Church.

Professor FISHER will lecture three times a week, through the year, on the History of Christian Doctrine and on Symbolical Theology. The course includes an explanation of the Origin of Theology as a Science, and a Discussion of True and False Theories of the Development of Doctrine; a Survey of the Influence of Philosophy on Theology in the Successive Eras; a Review of Authors in the field of

Theological Literature; a History of Theological Thought in the Church, in relation to the several Doctrines of the Christian system, down to the present time; an account of the Comparative Tenets of the different religious bodies into which Christendom is divided.

Professor BLACKMAN (who is at present in Europe) will begin his work of instruction in the year 1894-95 and his courses will be announced in the annual circular of the Divinity School, to be issued in the spring of 1894.

Professor PORTER will lecture twice a week on the Biblical Theology of the New Testament. The teaching of Jesus and the different types of Apostolic teaching will be examined in their historical character and in their relations to one another and to the religious ideas of the time. The aim will be both to trace the history of religious thought in the Apostolic age and to set forth the central teachings of the New Testament in their unity. The views of important writers on the subject will be critically examined, and assistance will be given to those who wish to pursue special studies in this department.

Dr. FAIRBANKS will lecture twice a week on some important social problems. The aim of the course is to trace in history the causes of present difficulties, and to criticise the efforts that have been made to deal with these difficulties. Some of the topics are as follows: I. The Social Organism, different modes of social activity, and the stimuli which produce this activity. Different types of social aggregates. The relation of the individual to the social organism. II. The history of Labor in England and America, with special reference to the origin of the present industrial classes and the present industrial difficulties. Socialism; its theory of the state, and its economic analyses. III. Pauperism and Crime. The causes of pauperism, and the history of charity and poor-relief. The criminal classes; punishment and recovery of criminals; the prevention of crime.

In addition to the above courses, students in the senior year are required to choose at least one additional hour of work from the following list of electives.

ELECTIVE COURSES FOR MIDDLE AND SENIOR YEARS

The purpose of these courses is to encourage scholarly investigation in special lines, and to train students in methods of independent study. The work will be mainly conducted after the "seminary" method of original research, and the exercises will consist largely in the reading of dissertations, and in discussions by the members of the class under the direction of the instructor.

The following courses are offered for the current year :

Professor BRASTOW will meet members of the Middle class twice a week during the first half of the year to discuss the following topics in Homiletics : the value and methods of homiletic study, the Christian conception of preaching, preaching gifts, the influence of the age on preaching, the general characteristics of modern preaching, with critical investigation of some of the more prominent modern preachers. It is the desire of the instructor that as many of the class choose this course as may find it consistent with their other work.

Professor BRASTOW will meet members of the Senior class once a week for the discussion of the following topics in the general subject of Christian Rhetoric : the characteristics of modern Rhetoric ; the influences that condition a pulpit type of speech ; the claims of rhetorical study on the attention of the preacher ; methods of cultivating pulpit style ; verbal, grammatical, and figurative elements in pulpit style ; analysis of qualities in pulpit style ; analysis of didactic and persuasive methods of pulpit style.

Professor CURTIS will give instruction once a week in the Wisdom Literature of the Old Testament. (This exercise is open to such members of the Middle class as the instructor may consider fitted to undertake the work with profit.)

Professor STEVENS will conduct an exercise once a week in the critical study of New-Testament passages of special difficulty and importance and in the investigation of subjects connected with these passages.

Professor PORTER will conduct an exercise once a week in the study of special topics in the teaching of Jesus.

Professor PORTER will also conduct an exercise once a week in the study of the Jewish Literature and Theology of the time of Christ.

Dr. FAIRBANKS will conduct an exercise once a week in the study of Social Ethics from the historic point of view. The special aim of the course is to trace the growth of the moral ideal as it was actually felt by the people. The popular idea of duty, and its sanctions, of sin and its penalty, and the concrete duties in relation to these ideas, will be discussed in reference to their historic development. Special attention will be paid to the Hebrews and to Old-Testament ethical standards ; to the social ethics of Greece ; and to the influence of Christianity on these.

Dr. FAIRBANKS will also conduct an exercise once a week in the study of the Semitic Religions in their relation to the Religion of Israel.

President DWIGHT will give occasional lectures on topics connected with the New Testament.

Professor DAY will give instruction in Syriac Grammar followed by readings in the Peshito version and also in the Biblical Aramaic.

He will also read with those students who desire to become familiar with the theological literature of Germany and have made sufficient progress in the language, some standard work in German, with critical remarks and references to the ablest works on special topics.

GRADUATE (OR FOURTH YEAR) CLASS

Admission into this class is by vote of the Faculty. Only those who have completed a three years' course in this or some other Theological School are admitted. The class is designed to meet the wants of those who desire to pursue an advanced course of general theological study, or to apply themselves to special subjects of reading or investigation in any of the departments of theology for one year or more, under the advice and direction of the Professors and with the helps furnished by the Reference and University libraries.

From the connection of the Divinity School with the other Departments of the University, special advantages for the prosecution of linguistic and other studies are open to students preparing for service as foreign missionaries.

The following subjects are announced for the coming year, but in some cases others may be substituted for them, after consultation with the class :

I. Professor DAY : Reading of the Revised English Scriptures, with explanation of obscure or misunderstood passages : or, History, Methods, and Literature of Modern Missions.

II. Professor HARRIS : Special Studies in the Philosophy of Religion.

III. Professor FISHER : Discussions of the Person of Christ in recent German Theology.

IV. Professor BRASTOW : The influence of Exegesis, Classical Rhetoric, Church Theology, Philosophy, and Mysticism upon the work of the Christian pulpit in different periods of the history of the Church.

V. Professor CURTIS : Reading of Siegfried's Critical Hebrew Text of the Book of Job.

VI. Professor STEVENS : The Gospel and Epistles of John.

VII. Professor PORTER : A critical study of the Synoptic Gospels as sources for the life and teaching of Jesus.

VIII. Dr. FAIRBANKS : Modern Theories in regard to the Philosophy of Religion.

Members of the Graduate Class are required, in all ordinary cases, to take at least three of these courses and are expected to continue their studies at the Seminary during the entire year. They are furnished with rooms free of rent, and no charge is made for instruction. Incidental expenses are the same as for other members of the School.

UNIVERSITY COURSES

Students of the Divinity School are admitted to the courses of instruction in the PHILOSOPHICAL DEPARTMENT OF THE UNIVERSITY, and are permitted to attend them on conditions prescribed by the Theological Faculty. Among the courses which are of special interest to students of theology are those of Assistant Professor Sanders in Semitic languages and Old-Testament literature (see pp. 61-63 of this catalogue), Professor Ladd and Assistant Professors Duncan and Sneath in Philosophy (see pp. 44-47), Professors Sumner, Hadley, Farnam, Wheeler, Smith, and Adams in Political Science and History (see pp. 48-51) and Professors Whitney and Seymour in Sanskrit and Greek philology (see p. 57).

EXERCISES IN PUBLIC SPEAKING

A rhetorical exercise for all the classes is held every week, in the MARQUAND CHAPEL, in the presence of the Faculty, and under the direction of the Professor of Homiletics. Once in two weeks an address is delivered, followed by criticism and discussion. Each alternate week there is an exercise, designed for the cultivation of the power of the students in extemporaneous speaking, as well as for the discussion of subjects of practical importance. Weekly debates are also held by the students in societies of their own.

ELOCUTION

Professor CURRY will give a thorough course of instruction in Vocal and Elocutionary Training, which is progressive in its character and extends through the three years of study for each class. The work is so arranged that each student receives, at least once a week, criticism upon some form of expression and personal suggestions as to daily practice.

To the Junior Class, a course of lessons is given in Vocal culture, proper action of the mind in reading and speaking, the principles of Vocal Expression, and oratorical action.

In the Middle year there is a more advanced course in Vocal Exercises, practice in the rhythm and melody of speech, in Scripture and hymn reading, and in preaching and various forms of speaking.

During the Senior year, instruction is given both in class and in private. Arrangements are made for training and practice to meet the special needs of each individual in his preparation for the duties of the preacher's office.

SACRED MUSIC

Instruction in vocal music will be given to students who desire it, by Professor STOECKEL. The course will include :

I. Harmony ; two hours a week, acoustics, intervals, formation of scales, chords, and their combinations, modulations, suspension and harmonization of melodies with special reference to sacred song.

II. Singing ; two hours a week, reading music at sight and elementary instruction in vocal culture.

Students who have completed the course in Harmony may take advanced courses in *Counterpoint*, *Canon*, *Fugue*, and *Forms*.

Lectures are given on the *History of Music*, *sacred and secular* ; *Aesthetics* ; *Analysis* : Oratorio, Opera, Chamber-music, Symphony ; *Biography* : Palestrina, Bach, Händel, Haydn, Mozart, Beethoven, Mendelssohn, Wagner.

The "Musical Society of Yale Divinity School" has for its purpose to stimulate an interest in church music and to develop and cultivate the musical talent of the students. To this end there are lectures on church music and kindred subjects by competent authorities, illustrated or accompanied by music. There is also a glee club, membership in which is determined by competitive examinations before Professor Stoeckel.

PUBLIC WORSHIP

There is daily morning worship in the MARQUAND CHAPEL. Students attend worship on the Lord's day in the University Chapel, or in any of the City Churches.

Prayer-meetings of the different classes and a general prayer-meeting of the Seminary are held on alternate weeks in the lecture-rooms.

LIBRARIES

The *University Library*, containing 165,000 volumes in the various departments of literature and science and many

thousands of unbound pamphlets, is especially rich in its theological part, and stands in this respect among the first libraries in the country. It is open seven hours every secular day for consultation and for the drawing of books. The Divinity students in common with the other members of the University have access to it without extra charge.

The united Libraries of the College Literary Societies, containing 30,000 volumes in general literature, are accessible to theological students.

For a fuller notice of the advantages of this character, the account of the Library found on another page of this catalogue may be consulted.

The *Reference Library* of the Divinity School, established by the late Henry Trowbridge, Esq., of New Haven, and placed in the Bacon Memorial Hall (erected by the late Frederick Marquand, Esq.), is open for consultation during several hours of the day. It contains more than 3,000 carefully selected volumes, in every department of theological literature, and is designed to take the place, for each student, of a large and well selected private library. The latest books and periodicals are constantly added to it as they appear.

The valuable *Library of Church Music* belonging to the late Dr. Lowell Mason, was given to the Seminary by his family. This library, which is one of the largest of its kind in the country, is placed in West Divinity Hall.

The *Library of Foreign Missions*, recently established, containing more than three thousand volumes, of which a catalogue has been issued, is designed to embrace a full History of Modern Missions, as carried on by all denominations and in all countries. More than forty of the leading American, English, and Continental missionary periodicals are regularly received. This Library, to which additions are constantly made, is placed in the room formerly occupied by the Trowbridge Reference Library.

The total number of volumes in the several libraries, which are open to students, is more than 200,000.

PHYSICAL EXERCISE

The University Gymnasium, which is complete in all its appointments, is open to the students of this Department at a small charge. The facilities offered in this connection are described on page 85.

DIVINITY HALLS

The East Divinity Hall contains, in addition to the Lecture-Rooms for the several classes and rooms for the Professors, accommodations for about sixty students. The West Divinity Hall (parallel with the other building and adjacent to it) has, in addition to the room containing the Lowell Mason Library, accommodations for ninety students. The rooms in these buildings are warmed by steam, and lighted by gas, and are provided with all necessary furniture, except bed-clothes, which may be brought by the occupants, or will be furnished at a moderate charge by the Janitor. The assignment of rooms to new students is made in the order of their application. A number of the rooms are designed for two students, but so far as practicable, single rooms will be assigned to applicants for admission who desire to room alone.

PRACTICAL CHRISTIAN WORK

In connection with the New Haven City Mission, and the missions and Sabbath schools of the numerous churches in the city, there is abundant opportunity for the students to engage in practical Christian work, and students are recommended to undertake such work as far as may be consistent with the prosecution of their studies. A committee of students, of which one of the Professors is chairman, has in charge the arrangement of this matter. It undertakes to ascertain the need of such student aid in the different missions and Sabbath schools as well as in hospital and jail work, and also to give each student that form of work which he desires. In some cases students receive pecuniary compensation for such work. During

the past year nearly 90 per cent. of the students have been regularly engaged in work of this character, or in preaching.

By invitation of the Faculty and students, occasional lectures of an informal character, relating to the practical work of the ministry and to different forms of philanthropic work, are given by clergymen and others who are specially well fitted to deal with these topics.

MISSIONARY SOCIETIES

A general Missionary Society of the Seminary, composed of Foreign, Home, and City Mission Branches, meets once in two weeks for the discussion of missionary topics. Occasional addresses are given by persons especially engaged in, or familiar with, missionary work. A Foreign Missionary Band, composed of those who contemplate service in the foreign field, holds regular meetings for the investigation and discussion of missionary subjects.

LICENSE TO PREACH

The regular time for applying for licensure is near the close of the second year's study, before which time the members of the Seminary are not allowed to preach, except by special permission of the Faculty.

EXPENSES AND PECUNIARY AID

Students have only to make pecuniary provision for about eight months of study annually. In the four months of vacation, from May to September, they have the opportunity to engage in Home Missionary or other labor, with remuneration for their services.

The expenses for the annual session of 34 weeks are \$15 for each student for care of room and other incidental expenses; \$25 to \$30 for fuel and lights, or one-half of this sum in case two students occupy the same room. No charge is made for instruction or room-rent.

The expense for board will be from \$3 to \$4 a week, at which prices most of the students have obtained good board during the past year.

Students of the Junior, Middle, and Senior Classes, whose circumstances require it, receive \$100 a year from the income of Scholarships and other funds belonging to the School. Additional aid to the amount of \$75 annually is furnished by the American College and Education Society to its beneficiaries. These means of assistance cover all the expenses mentioned above.

In addition to the aid mentioned above, ten scholarships of \$50 each, from the William H. Fogg Scholarship Fund, are offered to members of the Junior Class. Candidates for these scholarships must be college graduates, and must bring evidence of a standing of at least 75 per cent. during their college course. The scholarships will, in ordinary cases, be assigned according to the results of examinations to be held shortly before the Christmas recess.

After the close of the second year in May, students not infrequently receive remuneration for preaching in places easily accessible.

In general, it may be said that the aid which is provided for every young man, of any evangelical denomination, who gives promise of usefulness in the ministry, is sufficient, in connection with his own efforts, to enable him to complete a course of theological study.

GRADUATE FELLOWSHIPS

A GRADUATE FELLOWSHIP was established in this department, in 1876, as a memorial of the late Mrs. Aurelia D. Hooker, of New Haven. It is assigned at graduation to that member of the class to which it is offered who, having been connected with the School during at least two years of the course, and being of approved Christian character, has, in the judgment of the Faculty, made such proficiency in theological studies as best qualify him for the advantages offered by this foundation for the further

prosecution of the same. The person to whom the scholarship is given receives the annual income (\$600) for two years after graduation, and is expected to pursue a course of theological study under the direction of the Faculty, either as a resident at the School, or, in case he may prefer to do so, in Europe or Palestine. THE HOOKER FELLOWSHIP was offered to the class which entered the Divinity School in September, 1892, and is offered to the class which enters in September, 1894.

A SIMILAR GRADUATE FELLOWSHIP yielding \$500, which has been established as a memorial of the late Mrs. Susan B. Dwight, of New Haven, and will afford to the student who shall receive it the same privileges for one year after graduation, is offered on the same conditions to the classes which entered the School in September, 1891, and September, 1893.

GRADUATE SCHOLARSHIPS

Five scholarships of \$200 each, from the William H. Fogg Scholarship Fund, are offered to candidates for admission to the Graduate Class. These Scholarships will be assigned in part to members of the Graduating Class of this School, chosen by the Faculty. They are in part open to graduates of other theological schools who furnish evidence of high standing and present with their applications a satisfactory essay on a theological subject.

DEGREE

The Degree of Bachelor of Divinity is conferred by the President and Fellows of the University on all members of the School, who at the end of the Senior year pass the prescribed examinations and present an approved thesis on some topic of theology.

DEPARTMENT OF MEDICINE

(YALE MEDICAL SCHOOL)

FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., PRESIDENT
MOSES C. WHITE, M.D., *Professor of Pathology*
CHARLES A. LINDSLEY, M.D., *Professor of the Theory and Practice of Medicine*
WILLIAM H. CARMALT, M.D., *Professor of Surgery*
JAMES CAMPBELL, M.D., *Professor of Obstetrics and Diseases of Women and Children*
THOMAS H. RUSSELL, M.D., *Professor of Clinical Surgery and Surgical Anatomy*
HERBERT E. SMITH, M.D., *Professor of Chemistry, and Dean*
LOUIS S. DEFOREST, M.D., *Assistant Professor of Clinical Medicine*
OLIVER T. OSBORNE, M.D., *Assistant Professor of Materia Medica and Therapeutics*
HARRY B. FERRIS, M.D., *Assistant Professor of Anatomy*
GRAHAM LUSK, PH.D., *Assistant Professor of Physiology*
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OTHER INSTRUCTORS

- Professor WILLIAM H. BREWER, PH.D., *Lecturer on Sanitary Science and Public Health*
HENRY P. STEARNS, M.D., *Lecturer on Insanity*
SAMUEL B. ST. JOHN, M.D., *Lecturer on Ophthalmology*
HENRY FLEISCHNER, M.D., *Lecturer on Dermatology and Clinical Medicine*
FRANK H. WHEELER, M.D., *Assistant in Pathology*
CHARLES J. FOOTE, M.D., *Demonstrator of Bacteriology*
HENRY L. SWAIN, M.D., *Lecturer on Diseases of the Throat and Ear*
JOSEPH H. TOWNSEND, M.D., *Demonstrator of Obstetrics*
ARTHUR N. ALLING, M.D., *Clinical Assistant in Ophthalmology*
LOUIS B. BISHOP, M.D., *Assistant in the Surgical Clinic*

B. AUSTIN CHENEY, M.D., *Instructor in Obstetrics and Gynecology*
CHARLES A. TUTTLE, M.D., *Assistant in the Surgical Clinic*
LEONARD W. BACON, JR., M.D., *Assistant in the Medical Clinic*
WARREN A. SPALDING, *Demonstrator of Pharmacy*
RALPH A. McDONNELL, M.D., *Clinical Assistant in Dermatology*
CHARLES B. HALL, *Assistant in Chemistry*

In the fall of 1810 a charter was granted to the President and Fellows of Yale College and the President and Fellows of the Connecticut Medical Society, authorizing them to unite according to the terms of certain "Articles of Union," before agreed upon, for the establishment of a medical seminary, to be styled the Medical Institution of Yale College. Two years later the School was organized, and in the fall of 1813 instruction was begun. The Faculty consisted of four professors, appointed by the College Corporation from nominations by the Medical Society. Degrees were conferred by the College on the recommendation of the board of examiners, consisting of the members of the Faculty and an equal number appointed by the Medical Society. The instruction consisted of didactic and clinical lectures and dissections during the short winter course. Later, instruction was given during the spring months also, and from time to time the number of instructors was increased.

That this dual nature of the School and the method of instruction were wisely planned is shown by the position which the School took at once in the medical instruction of the time. But changes gradually took place in the relations between practitioners and students of medicine, and even greater changes in medicine itself, which demanded a different kind of instruction. This School responded early to this demand, and in 1879 an entrance examination was imposed, and a graded course extending over three years of eight months each, and including considerable laboratory instruction, was adopted. In 1884, by an agreement with the Medical Society, the College authorities assumed the entire control of the School.

In reorganizing the School as an integral part of the University, the inherent defects in the older and still common method of instructing chiefly by didactic lectures, were recognized, and the methods now employed are similar to those in vogue in the other Departments. Didactic lectures are still employed as best in some branches, but recitations from assigned readings, with explanatory lectures, laboratory work, and personal instruction in the clinics, constitute the main portion of the curriculum. The School has well equipped laboratories for the study of anatomy, histology, chemistry, pharmacy, physiology, pathology, and bacteriology. A new building especially adapted to the requirements of laboratory work, has been added to the equipment recently, and is used for the first time this year.

While the attention of the student is particularly directed to those branches which can be studied to advantage only in a well equipped medical school, the value of clinical instruction is fully appreciated, and amply provided for. The details of the course of instruction are given below.

TERMS OF ADMISSION

Candidates for admission to the course leading to the degree of Doctor of Medicine, must be at least eighteen years old, and must present satisfactory testimonials of moral character from former instructors or physicians in good standing.

As evidence that he has had a sufficient preliminary education, each candidate must present proof that he has passed the matriculation examination of some scientific, literary, or professional college in good standing; or present testimonials from the proper officer that he has pursued the course at some high school, academy, or preparatory school, approved by the Faculty; or he must pass an examination in the following subjects:

1. ENGLISH: An essay of about two hundred and fifty words on some familiar subject to be announced at the time of the examination.
2. MATHEMATICS: The metric system of weights and measures. *Algebra*; to Quadratics. *Plane Geometry*; to the extent included in Wentworth's *Plane Geometry*, Books i-iii.
3. PHYSICS: Gage's *Elements of Physics*, or some equivalent work.

These examinations are conducted in writing, and are held at the Medical School at 9 A. M., on the Thursday following Commencement, and on the Wednesday preceding the opening of the first term.

Copies of the questions of previous examinations will be furnished on application to the Dean.

In conjunction with other Departments, matriculation examinations will be held also on the Thursday after Commencement, in Chicago, Cincinnati, and San Francisco. Particulars of the time and place will be announced in the local papers. A fee of five dollars is charged for admission to examinations, held out of New Haven.

Students who have studied elsewhere in recognized medical schools, may present themselves for examination three weeks before Commencement and enter the examinations of the first year, or of the first and second years, according to their time of study. The results of these examinations will determine the class to which they belong.

Applicants for advanced standing who present themselves at other times of the year will be assigned to such classes as from their representations they seem to be fitted for, but at the next annual examination they will be examined in all of the studies previously passed by their class, as well as in those for the current year.

TERMS AND VACATIONS

The annual sessions of the School are divided into three terms, covering thirty-four weeks, exclusive of a vacation of three weeks at Christmas and a recess in the spring, usually of one week.

The first term begins with the first Thursday of October, and continues eleven weeks. The second term begins three weeks after the close of the first, and continues eleven weeks. The third term is twelve weeks in length, ending with Commencement. (See Calendar, p. 6.)

COURSE OF INSTRUCTION

JUNIOR YEAR :

Chemistry : Illustrated Lectures and Recitations, 4 hours,* Professor Smith. Chemical Laboratory, 9 hours, Professor Smith and Mr. Hall.

Anatomy : Lectures and Recitations, 3 hours, Professor Ferris. Dissections, four times a week, Professor Ferris and Dr. Tuttle. *Autopsies*, Professor White.

Histology : Recitations, 1 hour, Laboratory work, 3 hours, Professor Ferris.

Physiology : Lectures and Demonstrations, 2 hours, Professor Lusk.

MIDDLE YEAR :

Anatomy : Lectures and Recitations, 3 hours, Professor Ferris. Dissections, four times a week.

Materia Medica and Therapeutics : Lectures and Recitations, 2 hours, Professor Osborne.

Physiology : Lectures and Recitations, 2 hours, Professor Lusk.

Pathology : Lectures and Recitations, 1 hour, Professor White. Laboratory work, 2 hours, Professor White and Dr. Wheeler. *Autopsies*, Professor White.

Medicine : Lectures and Recitations on General Medicine, 3 hours, Professor Lindsley.

Surgery : Lectures on General Surgery, 3 hours, Professor Carmalt.

Obstetrics and Diseases of Women and Children : Lectures and Recitations, 2 hours, Professor Campbell.

Dispensary Clinics, daily. Hospital Clinics. Operations at the Hospital.

SENIOR YEAR :

Pathology : Lectures and Recitations, 1 hour, Professor White. Laboratory work, 2 hours, Professor White and Dr. Wheeler. *Autopsies*, Professor White. *Bacteriology*, 1 hour, first term, Dr. Foote.

* In each week.

Medicine : Lectures on General Medicine, 3 hours, Professor Lindsey. Dispensary Clinic, 3 hours, Professor DeForest. Hospital Clinics, weekly, Professor DeForest and Drs. Gilbert and Fleischner. *Insanity*, 1 hour, first term, Dr. Stearns. *Sanitary Science*, Professor Brewer, and *Toxicology*, Professor Smith, 1 hour, one term. *Therapeutics*, Lectures and Recitations, 2 hours, Professor Osborne. *Clinical Chemistry*, Laboratory, 2 hours, second term, Professor Smith.

Surgery : Lectures on General Surgery, 3 hours, Professor Carmalt. Dispensary Clinic, 2 hours, Professor Carmalt. Hospital Clinic, once a week, Professors Carmalt and Russell. Lectures on *Ophthalmology*, 1 hour, Dr. St. John. *Ear and Throat Clinic*, 1 hour, Dr. Swain.

Obstetrics and Diseases of Women and Children : Lectures and Recitations, 2 hours, Professor Campbell. Demonstrations, 1 hour, and Dispensary Clinic, 2 hours, Dr. Cheney.

Dispensary Clinics, daily. Hospital Clinics. Operations at the Hospital.

CHEMISTRY—In the lectures and recitations on *General Chemistry*, the object of the instructor is to cause the students to understand the fundamental principles of the science, and to comprehend the relationship between the various classes of chemical compounds. The properties of the elements and their chief compounds are illustrated by experiments and the use of a large collection. Much attention is devoted to the study of the typical organic compounds.

Qualitative Analysis is taught so far as to require the students to be able to analyze a mixture of the salts of the common metals. Each student is furnished with a desk and all required apparatus and reagents. The course is systematic and is well adapted to cultivate habits of observation and the analytical method of thought. In *Quantitative Analysis* each student makes a number of typical determinations by volumetric and gravimetric methods.

The course in *Physiological Chemistry* consists of recitations and a practical laboratory study of many of the proximate principles of the animal body, and the reactions and composition of the various tissues and fluids, particularly the digestive juices and the urine.

In the senior year there is a short laboratory course, dealing particularly with the analytical methods especially of value in clinical and sanitary work. The study of normal urine is then supplemented with abundant practice in the chemical and microscopical examination of pathological specimens.

ANATOMY—The course in anatomy extends through two years with examinations at the end of each year.

The instruction is given by means of recitations, with frequent reviews, lectures, and laboratory work, fully illustrated by fine models.

dissections, and the use of several hundred lantern slides. Thoroughness of detail is aimed at, but essential points are emphasized and every opportunity is taken for illustrating the application of anatomy to practical medicine. Each student is provided with a box containing the bones of the skeleton for home study. A new laboratory has been recently equipped in the most approved manner, and is amply provided with material for dissection. The students dissect under the immediate supervision of the instructor, and are required to demonstrate satisfactorily each part dissected after its completion. A brief laboratory course in the anatomy of the cat is pursued previous to the human dissections. The written examination at the close of the first year is upon osteology, syndesmology, and myology. The instruction of the second year includes angiology, neurology, and splanchnology. Special attention is directed to the study of the brain and cerebral localizations.

Topographical and Surgical Anatomy—The advanced students receive instruction in the special surgical relationships of anatomy in a course of lectures with demonstrations on the living model and the cadaver.

Normal Histology and Embryology—The instruction in these subjects includes a careful consideration of the histological structure of the adult body compared with that of the foetus in various stages of development, together with the history of the formation and growth of the embryo as a whole. By this method the student is enabled to gain not only a thorough understanding of the structure of the various tissues and organs of the body, but also to trace their development and growth. The course of instruction consists of lectures, recitations, and laboratory work. The lectures are very fully illustrated by lantern transparencies made from photographs of typical sections and drawings. These are accompanied by recitations from a standard text-book. In the laboratory, each student is furnished with a microscope and an outfit of all reagents and apparatus required for thorough work. He receives carefully prepared sections and specimens of the tissues and organs of the body, both in the adult and embryonic conditions; these are mounted for permanent preservation and from them careful drawings are made. Practical instruction is given each student in the technology of the subject.

The laboratory cabinet contains an extensive reference collection of histological specimens and serial sections of embryos; this together with the most recent instruments and publications, and an abundant supply of material, affords good facilities for advanced work.

PHYSIOLOGY—The course of instruction in Physiology embraces two years. During the first term of the first year the subject as presented in Huxley's Elements of Physiology is thoroughly reviewed, and the

student is required to pass a satisfactory examination at the end of the term. This introductory course familiarizes the student with the groundwork of the study of the phenomena of life in man, and thus enables him to comprehend better the importance and application of the other studies simultaneously pursued.

During the remainder of the first year, the chemical phenomena of physiology are studied in detail, and in the second year the physical phenomena receive attention. The instruction is by lectures,—the excellent treatise of Landois and Stirling being used as a complement to the lectures. The course is throughout fully illustrated by experiments. Frequent examinations are intended to hold the student to his work. The instruction aimed at is eminently scientific. The student must not only know the facts, but wherever possible he must be able to state the reason for the facts, as only by this means is scientific method of thought attainable. The new laboratory is well equipped with chemical and physical apparatus, and is designed to afford every opportunity for the student and investigator. Those fitted for advanced work are received into the laboratory, supplied with apparatus, and directed in methods of original investigation. The library of the professor in charge is freely open to those connected with the School.

MATERIA MEDICA AND THERAPEUTICS—The instruction in this department extends through the middle and senior years. The first year's course consists of recitations on *materia medica*, with personal blackboard work on prescription writing, and the demonstration of all the crude drugs, salts, alkaloids, and preparations of the *Pharmacopœia*.

The second year is devoted to recitations on the minute details of the physiological action of drugs and their therapeutic uses, with lectures on new drugs, massage, electricity, etc. During this year the students serve as clerks to the several Dispensary physicians, in rotation, and thus have a valuable opportunity to extend their practical knowledge of therapeutics and prescription writing.

Pharmacy—The school has a convenient and well equipped laboratory in which students are instructed by practical exercises in the preparation and compounding of drugs.

PATHOLOGY—The instruction in pathology consists of lectures, recitations, and laboratory work in pathological histology. The new laboratory is supplied with excellent microscopes which are furnished to each student, together with all necessary apparatus and reagents for the preparation, study, and preservation of microscopical specimens of morbid tissues.

Pathological anatomy is illustrated by a large collection of specimens and drawings, with which the museum is supplied, and supplemented by fresh pathological specimens. Students are also expected to attend all the autopsies made at the Morgue of the New Haven Hospital. This large and convenient morgue was constructed with special reference to rendering autopsies available for the instruction of students.

Medical Jurisprudence—Instruction in this subject is given by lectures on special topics, and by reports of the cases coming before the medical examiner and the coroner of New Haven County, and by reviews of cases occurring in the courts.

Bacteriology—The School has a special laboratory for the study of Bacteriology, which contains a fine equipment of modern apparatus, for carrying on investigations in all lines of research regarding bacteria. There is also maintained a cabinet of cultures, both saprophytic and pathogenic.

The instruction to students includes lectures and demonstrations of the various methods and apparatus for bacteriological research, and practical exercises in the methods which have become of value in clinical diagnosis. Graduates and those desiring to do special work will be afforded excellent opportunities for study.

MEDICINE—The method so long in vogue in medical schools of teaching this important branch solely by didactic lectures, has for a few years past been superseded by a method combining lectures and recitations in the same exercise. It is the experience of this school that the latter method has been attended with much more satisfactory results. By this mode of instruction the student is not only informed of the special subject of the day, but is required to prepare himself from a text-book. During the recitations questions upon the subjects are encouraged, and the Professor has thus the best opportunity to explain such obscure points as he may find are not fully appreciated. The intent and aim of the teaching is to give the instruction a practical direction, the teacher being constantly mindful of the real needs of the student.

Clinical Instruction is carried on at the New Haven Hospital, and at the New Haven Dispensary which is on the School grounds.

The clinical instruction in internal medicine in connection with the Dispensary comprises three clinics weekly held for the Senior and Middle classes by the Professor of Clinical Medicine. The cases exhibited are such as may be selected from among the patients for their instructive character and cover very completely the range of diseases exhibited by walking patients. In these clinics especial attention is devoted to the demonstration of all signs and symptoms of disease,

and instrumental or other means for their detection; auscultatory, palpatory, or other features which demand it, being demonstrated to the students individually in succession.

The Dispensary service in internal medicine which supplies these clinics is divided into three divisions, each under the immediate supervision of a physician, assistant to the Professor of Clinical Medicine. Each of these assistants is in attendance twice a week, and to each of them are assigned from the Senior class three clinical clerks, who are changed each month. The clinical clerks take the histories and make the preliminary examinations of patients, which are revised by the assistants who prescribe the treatment. While the clinical clerks are appointed primarily for the relief of the assistants in their examination of the patients, they find here necessary, and we believe unexcelled, opportunities for rendering themselves familiar with practical medical work. The urine, sputum, blood, etc., when these require investigation, are examined by the students under the direction of the instructors in chemistry and bacteriology. Cases which need to be seen at home are put in charge of Senior students with such supervision as each case requires.

At the Hospital one medical clinic is held each week by Professor DeForest, Dr. Gilbert, or Dr. Fleischner. These are general medical clinics, but particular attention is given to the demonstration of the various signs of importance in *Physical Diagnosis*. Opportunity is also here provided for the study of those severer cases which the Dispensary service does not furnish, and care is taken to have the students see the same patient in various stages of his disease, and, in fatal cases, to demonstrate the lesions at the autopsy.

Mental Diseases receive special consideration in a course of didactic lectures by Dr. Stearns, and by visits to hospitals for the insane.

Dermatology is taught in a course of clinical lectures by Dr. Fleischner.

Sanitary Science and the Public Health receive attention from Professor Brewer in a course of lectures, which includes the elements of these subjects, with a discussion of methods in practice, and of public sanitary administration.

Toxicology is taught in a course of lectures, and as treated includes a discussion of the general subject-matter of the science, the statistics of the use of the different poisons, and an exposition of the chemistry and the medico-legal bearings of the ptomaines.

SURGERY—Three didactic lectures on the principles and practice of surgery are given weekly, to the Senior and Middle classes, the course running through two years. Illustrations of minor surgical practice are shown in the service of the New Haven Dispensary, by Professor

Carmalt, who has charge of the surgical division. The wards of the New Haven Hospital afford opportunities for the observation and study of the more severe injuries and important surgical diseases. Professors Carmalt and Russell, who are of the visiting staff, hold weekly clinics during their terms of service, in which the advanced students are shown the cases during their whole stay in the Hospital, studying the causes which necessitate operations, where such are necessary, seeing the operations, among which are many of the most important in surgery, and observing the results of treatment.

Ophthalmology is taught in a special course of lectures by Dr. S. B. St. John, of Hartford, and illustrated by a large number of cases in the surgical clinic, particular attention being given to their elucidation.

Otology and Laryngology are taught by Dr. Swain in the Dispensary clinics. Each student is required to make examinations with instruments, and becomes familiar with their use and with the normal and principal pathological conditions of the throat and ear.

OBSTETRICS AND DISEASES OF WOMEN AND CHILDREN—Instruction is given in obstetrics by lectures and recitations, with systematic personal instruction by means of the manikin, on the several positions of the foetus in utero, the chief points of diagnosis, and the operations of midwifery.

The out-department of obstetrics in the Dispensary is under the charge of the Demonstrator of obstetrics. With him the senior students attend the cases during and after confinement.

Gynecology is taught by recitations and clinics. The senior students receive personal instruction in the methods of diagnosis and treatment in the Dispensary.

Diseases of Children—This important branch of medicine is taught by didactic lectures and recitations, as well as by clinical instruction at the Dispensary and Hospital.

THE NEW HAVEN HOSPITAL is situated but a short distance from the School buildings, and being the chief hospital in a large manufacturing city, which is also a considerable railroad center, its wards constantly afford ample material for the illustration of disease, and furnish frequent occasion for the performance of the various surgical operations.

The new *operating theatre* is thoroughly equipped with every requisite and convenience for surgical work. The arrangements are planned with special reference to making the operations available for purposes of instruction to students.

Three Resident Physicians are appointed annually according to the results of an examination before the medical staff. Graduates of this School frequently obtain appointments also in the hospitals of neighboring cities.

THE NEW HAVEN DISPENSARY is located on the school grounds. Extensive changes have recently been made in the building ; a substantial addition has been erected and the old building remodeled. It is now so arranged as to afford the greatest facilities for the examination and treatment of the many patients who seek aid at this charity, and to furnish the best opportunities to instruct the students, who participate daily in the work of the institution.

WRITTEN EXAMINATIONS are held at the close of each year on the studies of the year. The examinations at the end of the first year are upon General and Medical Chemistry, Histology, Anatomy, and Physiology. Those at the end of the second year are upon Advanced Physiology, Advanced Anatomy, and Materia Medica. Those at the end of the third year are upon Pathology, Surgery, Medicine, Therapeutics, and Obstetrics, with a practical examination in Clinical Medicine.

REQUIREMENTS FOR A DEGREE

To be eligible for the degree of Doctor of Medicine, every candidate must fulfill the following conditions :

I. He must be at least twenty-one years of age, and must sustain a good reputation for moral character.

II. He must have spent three years as a student in this School, or if but one or two years in this School, he must have pursued such studies in some other recognized institution, as are considered by the Faculty to be the equivalent of the remainder of the full term of study. The last year must have been in this School.

III. He must have passed to the satisfaction of the Faculty the prescribed examinations of the course ; and he must have presented a satisfactory thesis on some subject relating to medicine. The thesis should be presented to the Dean on the third Wednesday before Commencement.

HONORS AND PRIZES

The degree of Doctor of Medicine *magna cum laude* will be conferred on students whose examinations and school work show distinguished merit.

The degree of Doctor of Medicine *cum laude* will be conferred on students whose examinations and school work show unusual merit.

THE CAMPBELL GOLD MEDAL is awarded to that member of the graduating class who secures the highest rank in the examinations of the course.

THE KEESE PRIZE—The income of the fund for the Keese Prize, a memorial of Hobart Keese, M.D., of the class of 1855, which amounts to about \$140 annually, is awarded by the Faculty to that member of the graduating class who presents the best thesis.

THE OBSTETRICAL PRIZE, consisting of a set of obstetrical instruments, is awarded to that member of the graduating class who passes the best examination in obstetrics.

Any of these prizes may be withheld at the option of the Faculty.

LIBRARY

The University Library contains about 165,000 volumes and includes the Medical Library. Medical students have the same privileges of consulting and drawing books as other students of the University.

GYMNASIUM

The privileges of the University Gymnasium can be had on payment of the fee of \$5 annually.

FEES AND EXPENSES.

FIRST YEAR :

Matriculation (paid but once),	.	.	.	\$	5.00
Tuition,	.	.	.	.	140.00
Practical Anatomy (including instruction and material),	.	.	.	.	10.00

SECOND YEAR :

Tuition,	\$140.00
Practical Anatomy (including instruction and material),	5.00
Practical Pharmacy,	5.00

THIRD YEAR :

Tuition,	80.00
Graduation,	30.00

A deposit of \$5 is required in the chemical laboratory, and one of \$1 in the histological laboratory, to cover the cost of apparatus broken by the students.

These fees give entrance to all the instruction of the School, including not only the lectures and quizzes, but the practical courses in analytical and physiological chemistry, urinary analysis, histology, pathology, osteology, and clinical medicine and surgery.

The tuition fee for the first and second years is due at the beginning of each of the three terms, in installments of \$50, \$50, and \$40, respectively ; for the third year the installments are \$30, \$30, and \$20.

Fees are paid to the Treasurer of the University, except the matriculation fee and the fee for graduation, which are paid to the Dean.

BOND—Students who do not pay when their bills are due are required to give a bond to the Treasurer for three hundred dollars, executed by a satisfactory bondsman ; a blank for this bond will be furnished on application to the Treasurer. Those who deposit such bonds will receive term-bills, with interest added, shortly before the end of each term, to be paid, on or before the commencement of the next succeeding term, and students who deposit bonds must pay all arrearages before they can receive back their bonds from the Treasurer. No degree can be conferred, nor any certificates of attendance or examination furnished, until all bills due the School are paid.

Students will be assisted in finding board and lodging by the Janitor.* Prices range from four and a half dollars a week upwards.

* Mr. William Blackwood, 146 York St.

INSTRUCTION TO GRADUATE AND SPECIAL STUDENTS
NOT CANDIDATES FOR A DEGREE IN MEDICINE

The instruction here offered to graduates in medicine is intended to meet the requirements of two classes of students : first, those who wish to review or supplement their knowledge of the regular studies of the medical curriculum, as taught in this school ; and second, those who wish to fit themselves in special lines of medical work, or for the duties of a medical examiner, or for medico-legal and sanitary examination.

Courses in the following subjects are specially mentioned : Experimental Physiology ; Physiological Chemistry ; Chemical Analysis, including General Qualitative Analysis and the Quantitative Methods as applied in medicine ; Experimental Toxicology and Medico-Legal Examinations ; Sanitary Analysis, including the Chemical and Bacteriological Examinations of Food, Air, Water, etc. ; Practical Anatomy ; Normal and Pathological Histology ; General Bacteriology. But any of the regular studies may be taken, and special courses to meet the requirements of the students may be arranged at hours convenient to the instructors.

Special Students are not taken in the practical branches of medicine, but the studies mentioned above and the general studies of the course are open to such persons as may desire to pursue them, if by their previous studies they are prepared to profit by the instruction.

The charges for instruction will depend on the courses taken, and can be ascertained for any particular line of study by applying to the Dean.

For further information, address Professor HERBERT E. SMITH, Dean. Office hours, from 11:30 A. M. to 12:30 P. M. on Wednesdays, in Room No. 25, at the School, 150 York St.

DEPARTMENT OF LAW

(YALE LAW SCHOOL)

FACULTY

- REV. TIMOTHY DWIGHT, D.D., LL.D., *PRESIDENT*
HON. FRANCIS WAYLAND, LL.D., *Dean*
HON. WILLIAM C. ROBINSON, LL.D., *Professor of Elementary and Criminal Law and the Law of Real Property*
HON. SIMEON E. BALDWIN, LL.D., *Professor of Constitutional and Mercantile Law, Corporations and Wills*
HON. WILLIAM K. TOWNSEND, D.C.L., *Edward J. Phelps Professor of Contracts and Admiralty Jurisprudence*
THEODORE S. WOOLSEY, LL.B., M.A., *Professor of International Law*
GEORGE D. WATROUS, D.C.L., *Assistant Professor of Contracts and Torts*
GEORGE E. BEERS, M.A., M.L., *Assistant Professor of Elementary Law, Contracts, and Equity*
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SPECIAL LECTURERS AND INSTRUCTORS

IN THE UNDERGRADUATE COURSE

- HON. EDWARD J. PHELPS, LL.D., *Instructor in Equity and International Law*
HON. NATHANIEL SHIPMAN, LL.D., *Lecturer on Jurisdiction of and Procedure in the United States Courts*
HON. HENRY HITCHCOCK, LL.D., *W. L. Storrs Lecturer on Municipal Law*
MARK BAILEY, M.A., *Instructor in Forensic Elocution*
HON. AUGUSTUS H. FENN, M.A., *Lecturer on Evidence*
HON. MORRIS W. SEYMOUR, LL.B., M.A., *Lecturer on Corporations*
M. DWIGHT COLLIER, M.A., *Lecturer on Attachments, Judgments, and Executions*
HON. JOHN H. PERRY, LL.B., M.A., *Instructor in Evidence and Commercial Law*
THOMAS THACHER, LL.B., M.A., *Lecturer on Corporate Trusts*

JAMES M. TOWNSEND, JR., LL.B., *Lecturer on Transfer of Monetary Securities*

GEORGE M. SHARP, LL.B., M.A., *Lecturer on Insurance*

C. LARUE MUNSON, LL.B., *Lecturer on the Beginnings of Practice*

HOWARD H. KNAPP, B.A., LL.B., *Lecturer on Connecticut Practice*

EDWARD G. BUCKLAND, B.A., LL.B., *Instructor in Contracts*

IN THE GRADUATE COURSE

HON. EDWARD J. PHELPS, LL.D., *Instructor in Constitutional Limitations*

ALBERT S. WHEELER, M.A., *Instructor in Roman Law*

ARTHUR M. WHEELER, M.A., *Instructor in English Constitutional Law*

WILLIAM G. SUMNER, LL.D., *Instructor in Political and Social Science*

HON. DAVID TORRANCE, M.A., *Instructor in Sales*

TALCOTT H. RUSSELL, B.A., LL.B., *Instructor in Municipal Corporations and Insurance*

M. FRANK TYLER, B.A., LL.B., *Instructor in Jurisprudence*

ARTHUR T. HADLEY, M.A., *Instructor in Railway Management and Economics of Transportation*

EDWIN B. GAGER, B.A., *Instructor in Mortgages*

ROGER FOSTER, LL.B., M.A., *Lecturer on Federal Jurisprudence*

JOHN A. ROBINSON, LL.B., M.D., *Librarian*

HOWARD A. COUSE, B.A., *Assistant Librarian*

HARRY G. DAY, PH.B., LL.B., *Instructor of Quiz-Clubs*

It is the aim of the School to give to all students in its regular undergraduate course a thorough acquaintance with the general principles and rules of American law, so as to fit them for the Bar of any State; to extend to those who do not propose to become practicing lawyers, but wish to pursue some particular branches of legal or political knowledge, such assistance as they may desire; and to offer to advanced students, who are able to devote to it the necessary time, instruction in all that belongs to law as a science in its widest sense. Such instruction is now given in an undergraduate course, a graduate course, and two special courses.

The undergraduate course is mainly devoted to the practical side of legal education, but also gives some introduction to the general ideas and sources of jurisprudence. In the graduate course, the studies are so arranged that those of the first year have no necessary connection with those of the next, and can therefore be profitably pursued by themselves when the student has no time to devote to a more extended education. The first year is mainly occupied with further instruction in practical topics begun in the undergraduate course, such as Corporations, Railroad Law, Mortgages, Sales, Patents, Taxation, and Practice in the United States Courts. The second year is mainly devoted to studies of a more scientific and philosophical character, such as General and Comparative Jurisprudence, Legislation and Government, Roman Law, the French Codes, and Private International Law. It is believed that the studies of the undergraduate course, and those of the first year of the graduate course, cover all the topics which it is desirable for the ordinary law student to examine before admission to the Bar ; and the fourth year (in which the degree of Doctor of Civil Law is awarded) is recommended only to those who desire to fit themselves to be something more than practicing lawyers. For the special courses see page 232.

The School occupies an entire story of the Court House of New Haven County, facing the Green, on the opposite side from the College buildings. It has, upon the same floor, two lecture-rooms, a large library-hall, the office of the Dean of the Faculty, and other apartments furnishing conveniences for quiz-clubs and debating societies. A special feature of the School is the peculiar facility which it affords its students for observing actual practice in court. This is due to the fact that in the Court House two terms of the Supreme Court of Errors of Connecticut are held annually ; and the Superior Court and Court of Common Pleas (the principal Civil and Criminal Courts of the State) are also in session almost daily, during each of the School terms.

The students are allowed the freest access to the large library of the School (which is open until half-past nine in the evening), examining the books on the shelves for themselves, without the intervention of the librarian. The familiarity with the reports and authorities that is thus gained, the Faculty deem of great importance in accustoming the student to prepare his cases intelligently and thoroughly in his future practice. A debating society—the Kent Club—gives a good opportunity for practice in public speaking, and the formation of class quiz-clubs, to meet in the Law School apartments, is also provided for. Those formed in the Junior year are under the special direction of a competent instructor. The discussion of legal topics, unreservedly and familiarly by the students among themselves, is promoted, and the fact that they generally come from a wide range of States renders such comparisons of ideas of special interest and value to all. The share of the School in the general advantages of the University gives the students many opportunities of broadening their views and acquiring knowledge in regard to matters outside of their strictly professional work. They can, on application to the Dean, obtain permission to be present at one or more of the special courses of instruction in the Department of Philosophy and the Arts, or the lectures on Medical Jurisprudence, Anatomy, Insanity, etc., in the Medical School, on payment of a moderate fee.

COURSES OF INSTRUCTION

The regular courses of instruction, including both required and elective studies, are as follows :

UNDERGRADUATE COURSE

JUNIOR YEAR :

Professor WAYLAND : Lectures—English Constitutional Law.

Professor PHELPS : Lectures—International Law.

Professor ROBINSON : Recitations—Elementary Law, Pleading, and Evidence.

Professor BALDWIN : Recitations—Mercantile Law. Lectures—Nature and History of American Law : Wills.

Judge PERRY : Recitations—Evidence.

Professor TOWNSEND : Recitations—Contracts.

Professor WATROUS : Contracts, and Torts.

Professor BEERS : Contracts, and Elementary Law.

Mr. BUCKLAND : Landlord and Tenant, and Contracts.

Mr. BAILEY : Forensic Elocution.

SENIOR YEAR :

Professor PHELPS : Lectures—Equity ; Equity Pleading.

Professor ROBINSON : Recitations—Forensic Oratory, Real Property, Medical Jurisprudence. Lectures—Estates, Conveyancing, Criminal Law.

Professor BALDWIN : Recitations—Private Corporations ; Trusts. Lectures—American Constitutional Law ; Public Corporations ; Roman Law ; Practice.

Judge FENN : Lectures—Evidence.

Professor TOWNSEND : Recitations—Contracts.

Professor WOOLSEY : Lectures—International Law.

Judge PERRY : Recitations—Commercial Paper.

Professor BEERS : Contracts, and Equity.

Mr. SEYMOUR : Lectures—Private Corporations.

Mr. COLLIER : Lectures—Attachments, Judgments, and Executions.

Mr. TYLER : Recitations—General Jurisprudence.

Mr. THACHER : Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND : Lectures—Transfer of Monetary Securities.

Mr. SHARP : Lectures—Insurance.

Mr. MUNSON : Lectures—The Beginnings of Practice.

GRADUATE COURSE

FIRST YEAR :

Professor ROBINSON : Recitations—Patents.

Professor BALDWIN : Recitations—Railroad Law ; Practice in U. S. Courts.

Professor TOWNSEND : Recitations—Admiralty Law.

Judge TORRANCE : Sales.

Mr. RUSSELL : Recitations—Municipal Corporations ; Taxation ; Insurance.

Mr. TYLER : Recitations—General Jurisprudence.

Mr. FOSTER : Lectures—Federal Jurisprudence.

Judge GAGER : Recitations—Mortgages.

Professor SUMNER : Lectures—Political History and Science.

Professor A. M. WHEELER : Lectures—English Constitutional History.

Professor HADLEY : Lectures—Railway Management.

SECOND YEAR :

Professor ROBINSON : Recitations—Early History of Real Property. Lectures—Canon Law.

Professor BALDWIN : Recitations — Comparative Jurisprudence ; Code Napoléon.

Professor WHEELER : Lectures—English Constitutional Law.

Professor SUMNER : Lectures—Political and Social Science.

Mr. A. S. WHEELER : Recitations—Roman Law.

Mr. TYLER : Recitations—General Jurisprudence.

Professor HADLEY : Lectures—Economics of Transportation.

Professor FARNAM : Lectures—Public Finance.

The method of instruction, as will be seen by the foregoing schedule, is mainly that of recitations. It is the conviction of the Faculty of this Department, as well as the tradition of the University, that definite and permanent impressions concerning the principles and rules of any abstract science are best acquired by the study of standard textbooks in private, followed by the examinations and explanations of the recitation-room. Hence, although certain subjects are separately taught by lectures, either because the want of proper manuals, or the constant and rapid advance of learning, or economy of time, requires the adoption of that method, care is taken that the same topics shall be covered by recitation work in connection with the wider branches of the law to which they belong. Reported cases of special importance as illustrating the development of law into leading branches are also referred to, and many of these are separately printed by the Department and distributed for more ready consultation. The recitation-hours, however, are not devoted entirely to the questioning of the student. While this is done with sufficient thoroughness to hold him up to his work of preparation, ample opportunity is afforded for a free colloquial discussion of the subject of the lesson and for the presentation and solution of the difficulties which he may have encountered in his private study. In this manner each student is brought into personal communication with the instructor in reference to his daily work, and as far as practicable, receives the benefits which would be obtained if he were placed under the individual tutorship of his professor.

The several courses of study to which the attention of the student is directed in his undergraduate career are intended to familiarize him

with all the branches of the law which ordinarily become useful to the practitioner in the earlier years of his professional life. The course, embracing American Law, English and American Constitutional Law, and Elementary Law, is pursued under the guidance of six different professors. In this course, the fundamental conceptions which underlie all systems of jurisprudence are brought to the notice of the student and fully defined and explained; the peculiar doctrines which characterize our American Law are pointed out; the principles of constitutional government, and the special features it exhibits both in this country and in England, are discussed; and the entire body of the common law in its four great divisions, is reduced to distinct propositions and illustrated by numerous collateral readings. This course alone covers the ground usually traversed by the student in an office prior to his admission to the Bar.

The course in Real Property includes recitations in a standard work of a general character, and, subsequently, in text-books upon special subjects such as the Law of Mortgages, the Law of Landlord and Tenant, etc. Collateral to this course are two others: one, a series of lectures on Estates, in which the law and practice in Guardianships of Infants and Incapables, and the Administration of Decedents' Estates, are considered; the other, a course of practical instruction in Conveyancing, in which the students are exercised in drawing all the instruments commonly employed in the transaction of business concerning real property.

The course on Contracts is the most extended, as it is the most important, in the School. It occupies a great part of the time of three of the professors. It continues during both the Junior and Senior years, and embraces, among other important topics, those of Agency, Bailments, Bankruptcy and Insolvency, Bills and Notes, Consideration and Assent, Contract Liabilities of Infants and Married Women, Liens, Marine, Fire, and Life Insurance, Partnership, Sales, Shipping, Sureties, Trademarks, and Telegraphs. Collateral to this course are five others: one on Wills, in which the law of testamentary dispositions and executorship is examined; another on Patents, in which the nature of patentable inventions, the mode of using letters patent, and the remedies for infringement are considered; a third on Corporations in general, treating the law governing the organization, privileges, duties, and liabilities of all incorporated bodies; the fourth and fifth on Private and Public Corporations respectively, in which the practical arrangement of each class is illustrated and explained. The last four are begun in the undergraduate course and completed in the first year of the graduate course.

The course on Torts consists of recitations on that subject, from recent and approved text-books, with a running commentary by the

instructor, explaining and applying the principles contained in the lesson.

The course on Equity embraces the whole body of Equity Jurisprudence, and is taught by recitations from the text-book, with occasional lectures on the obscurer topics. Collateral to this course is a series of lectures on Equity Pleading, discussing the principles and practice by which equitable remedies are governed and applied.

The course on Criminal Law extends through part of the Senior year, and embraces the topics of Procedure and Evidence as well as the substantive law of Crimes. Current cases of note, arising in any part of the country, are made subjects of discussion in connection with the rules of law by which they are to be decided.

The course on Pleading embraces the subjects of Common Law Pleading and Code Pleading, both taught by recitation and examples; while the details of the latter are enforced by requiring the students to draw complaints, answers, etc., in cases of their own selection, and to submit them to the instructor for criticism and correction. Special instruction is also given to each student as to the system of pleading and conveyancing in use in the State in which he expects to practice.

The course on Evidence covers both its general rules, and those applicable to each form of action; recitations being supplemented by lectures amplifying and explaining in the light of modern cases the principles involved in the various topics. Collateral to this and the foregoing course are four others: one on Forensic Oratory, consisting of a series of lectures, in which the preparation and conduct of a suit, in all its different stages, are explained; the second, on Forensic Elocution, in which practical instruction is given in the art of public and forensic speaking; the third on Process, including the subjects of Attachments, Garnishment, and Execution; and the fourth on Practice, a series of familiar lectures on the methods of transacting general legal business.

The course on International Law occupies portions of both undergraduate years. In the Junior year, the work consists of lectures covering the general field occupied by Woolsey and Pomeroy. In the Senior year, instruction is given by lectures on particular topics, especially on questions which are, for the time being, exciting public attention, and which demand the application of the principles examined in the previous year.

The course on Roman Law is intended as an introduction to the more advanced studies of the graduate years, and, though necessarily brief, is sufficient to indicate the distinguishing features and doctrines of the civil law, and to refer to the original sources for more detailed information.

The studies of the first graduate year have been selected with a view of preparing the intended practitioner for the higher walks of profes-

sional life. The subjects are of universal interest, the law which governs them is substantially the same in all parts of the country, they involve the most extensive financial enterprises of the age, and on these accounts form the most important practical topics at present embraced within our law. Particular attention to them has, therefore, been deemed an essential requisite to a finished legal education, and the devotion to them of an additional year, on the part of students and instructors, has been thought a wise, if not a necessary measure. The various courses are critically taught both by text-book and by lecture, and each student receives all the assistance he may desire in his personal examination of cases and authorities. Special attention is paid to the methods of practice and pleading in the United States Courts, both in Common Law, Equity, and Admiralty cases, and instruction is therefore given on these subjects by three of the Faculty. The students are required to draft pleadings, and in matters of special difficulty, such as the conduct of proceedings *in rem* in Admiralty, these pleadings are carried on through all the usual steps, and the issues made up are argued before the Professor. The value of this year of special work to the earnest and intelligent graduate cannot be overestimated.

The courses of instruction in the second graduate year are designed to afford to the advanced student an opportunity to round out his legal acquirements with a knowledge of the more profound and philosophical principles of human law. The primary conceptions to which he was introduced at the commencement of his studies are again taken up and developed in a scientific method, and examined in the light of various systems of practical Jurisprudence now or heretofore prevailing. In view of the limited time which can ordinarily be devoted by young men to these pursuits, the courses have been so arranged as to present these fundamental ideas as clearly and in as many applications as is possible, leaving it to future private study to enlarge the outline and complete the details of the work.

The course on General Jurisprudence consists of lectures and recitations from such works as Holland and Austin on Jurisprudence, Holmes on the Common Law, etc., and the students are required to write theses on the various topics. The course on Roman Law comprises the careful study of the Institutes of Justinian, in connection with institutional works of modern authors, and the perusal of selected titles from the Digest, accompanied by oral explanations. Particular attention is devoted to this course of study, and every effort is put forth to make the students familiar with the doctrines of the civil law, as well as with the technical language in which these have been expressed. The course on Comparative Jurisprudence includes among its chief branches a careful study of the French Codes, compared with other systems of jurisprudence, particularly the Roman, English, and

American, and recitations upon private international and inter-state law, with the investigation of leading cases on the subjects, decided in the French and American Courts. The Course on Canon Law consists of a series of lectures on the history, development, and fundamental theories of the Canon Law, with select readings from the *Corpus Juris Canonici*, and from French and English treatises upon the subject. The course on Political and Social Science is one of the principal courses in the Philosophical Department of the University, and is attended by the graduate students of the Law School in common with the members of that Department. The course on the Economics of Transportation is a continuation of the series of Lectures on Railway Management given in the first graduate year, extending the views of the student from the single subject of railways to all the instrumentalities of commerce.

In addition to the regular course of instruction, two Special Courses are provided; one for those who desire some acquaintance with law as a preparation for business life; the other for persons not intending any active business or professional career, but desiring to acquire an enlarged acquaintance with our political and legal systems and the rules by which they are governed. The first of these special courses covers a single year; the second comprises two years. The studies of the first course may be arranged as follows, but the selection can be varied (if desired) on consultation with the Dean of the Faculty:

Professor ROBINSON: Recitations—Elementary Law. Lectures—Estates.

Judge TORRANCE: Recitations—Sales.

Professor BALDWIN: Recitations—Agency, Partnership, Corporations, Bills and Notes. Lectures—American Law; American Constitutional Law.

Professor WATROUS: Recitations—Torts.

Professor TOWNSEND: Recitations—Marriage, and Husband and Wife, Sales, Shipping, Insurance, Securities, Bailments, Telegraphs, Trademarks, Liens.

Professor PHELPS: Lectures—International Law.

Professor BEERS: Recitations—Bankruptcy and Insolvency.

Professor HADLEY: Lectures—Industrial Legislation.

Mr. BAILEY: Lectures—Elocution.

Mr. COLLIER: Lectures—Attachments, Judgments, and Executions.

Mr. THACHER : Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND : Lectures—Transfer of Monetary Securities.

Mr. BUCKLAND : Recitations—Contracts, and Landlord and Tenant.

SECOND SPECIAL COURSE—TWO YEARS

FIRST YEAR

Professor ROBINSON : Recitations—Elementary Law. Lectures—Estates.

Professor BALDWIN : Lectures—American Law, American Constitutional Law, and Wills ; Roman Law ; Public Corporations.

Professor BEERS : Recitations—Bankruptcy and Insolvency.

Professor TOWNSEND : Recitations—Sales, Insurance.

Professor PHELPS : Lectures—International Law.

Professor SUMNER : Lectures—Political and Social Science.

Professor FARNAM : Lectures—Public Finance.

Professor HADLEY : Lectures—Industrial Legislation.

Mr. BAILEY : Elocution.

Mr. SEYMOUR : Lectures—Private Corporations.

Mr. WHITE : Lectures—Local Government in the United States.

Mr. SHARP : Lectures—Insurance.

SECOND YEAR

Judge TORRANCE : Recitations—Sales.

Professor BALDWIN : Recitations—Trusts, or Comparative Jurisprudence.

Judge GAGER : Recitations—Mortgages.

Mr. RUSSELL : Recitations—Municipal Corporations ; Taxation ; Insurance.

Mr. TYLER : Recitations—Jurisprudence.

Professor WOOLSEY : Lectures—International Law.

Professor SUMNER : Lectures—Political and Social Science.

Mr. A. S. WHEELER : Recitations—Roman Law.

Mr. THACHER : Lectures—Corporate Trusts.

Mr. J. M. TOWNSEND : Lectures—Transfer of Monetary Securities.

In the latter course the students may, at their option, defer some of the studies of the first year until the second, and when desired, other branches taught in the Law School may be pursued, instead of certain of those here mentioned, at the discretion of the Faculty. Some or all of the studies of this course may be taken by those who having received a bachelor's degree implying a course of undergraduate study equivalent

to that pursued in the Academical Department, are completing their education with a view of applying for the degree of Doctor of Philosophy. Those who take the full course may apply for the degree of Bachelor of Civil Law (B.C.L.).

Besides these various exercises, the undergraduate students are required, from time to time, to draft contracts, wills, and other similar instruments, the work of each being reviewed and commented upon, either in public or in private, by the instructor. Public Moot Courts, besides those of the class quiz-clubs, are regularly held, at which one of the professors presides as judge, and the students acting as counsel, in the argument of cases, are required to draw the necessary pleadings, according to the common law or equity forms, as the case may be. Occasionally, also, cases are tried by the students before a jury of their own number, in a court regularly organized, with a full complement of judicial, clerical, and executive officers, where the proceedings are conducted in the same manner as in ordinary courts of law.

TERMS AND VACATIONS

There are three terms in each year: the Fall Term, beginning thirteen weeks from the day after Commencement, and continuing to the Thursday before Christmas; the Winter Term, beginning in January, after a vacation of three weeks, and lasting eleven weeks; and the Spring Term, beginning after a vacation of two weeks, and continuing until Commencement.

REQUIREMENTS FOR ADMISSION

UNDERGRADUATE COURSE

Applicants for admission to the Junior Class must be at least eighteen years of age, and must produce certificates of good moral character. Students who have not received a liberal education at some collegiate institution will not

be admitted as candidates for the degree of LL.B., or that of B.C.L., until they have passed satisfactory examinations in Roman, English, and American History, and English Literature. Such a knowledge of these subjects as can be gained from Creighton's Roman History, Green's Short History of the English People, Ridpath's History of the United States, and Shaw's New Manual of English Literature, should be sufficient to qualify the student for this examination. This preliminary examination will also call for a fair knowledge of English Grammar and Composition, Geography, Arithmetic, and the text of the Constitution of the United States. Those, however, will be excused from this examination who present a certificate that they have passed a "Regents' Examination for Law Students," conducted under the authority of the Board of Regents of the University of the State of New York.

To entitle a person to admission to advanced standing as a member of the Senior Class, he must be at least nineteen years of age ; must, if a college graduate, have studied law under a competent instructor, or at the Law School of some College or University for at least one year ; must, if not a College graduate, have studied law under a competent instructor for at least two years, or at a Law School for at least one year ; and must pass such examinations as are required for those entering the Senior Class in the regular course, at which it will be sufficient if he is prepared to be questioned on Parsons on Contracts (excepting only from vol. ii, pages 257 to 488, and from vol. iii, pages 350 to 423 and 525 to 557), Blackstone's Commentaries (except Book 4), Robinson's Elementary Law, Gould, Heard, or Stephens on Pleading, Townsend's Notes on Code Pleading, Greenleaf on Evidence, vol. i, Cooley on Torts, and the elementary principles of testamentary law, as given in such works as Hawkins on the Construction of Wills. Attorneys at Law, however, of any State are entitled to admission to the Senior Class, without examination, on the exhibition of their certificates of admission

to the bar; and special students, not candidates for a degree, will be admitted to any of the exercises of the School without examination.

GRADUATE COURSE

The first year of the graduate course is open, without examination, to graduates from any Law School, having the degree of LL.B., or to any attorney at law who presents a certificate of a judge of the highest court in his state that he has been in active practice during the previous five years and has a creditable standing at the bar.

The last year is open only to those who have received the degree of Master of Laws (M.L.), at this school or some other having an undergraduate course of a similar character. A preliminary examination upon the outlines of Roman Law and Roman History must also be passed, by all who have not taken their Bachelor's degree at some Law School where Roman Law is a prescribed study. The degree of Doctor of Civil Law (D.C.L.) may be applied for at the end of this year, by those who have been graduated at some collegiate institution, as Bachelor of Arts, Philology, or Philosophy; or who are graduates of this Law School, and have attained a prescribed standard of scholarship on their examinations for the degrees of LL.B. and M.L. A good knowledge of either the French or German language, as well as of Latin, is also required. The Faculty will present no one for the degree of D.C.L. who has not attained a high standard of proficiency in the studies pursued.

EXAMINATIONS

There will be an examination of candidates for admission to the Junior Class on the day before the opening of the Fall Term. Candidates for admission to the Senior Class are examined at the end of the Spring Term, or beginning of the Fall Term. Seniors are examined for a degree, only at the close of the Spring Term. In the undergraduate course

there are certain studies upon which all students are examined at the close of the year, and others upon which only those who desire are examined. The award of "honors" is confined to those who pass both examinations. Examinations for degrees in each course are held at the close of the Spring Term. Every candidate for a degree, both in the undergraduate and graduate courses, must also submit a written thesis on a given legal topic, which must be approved by the Faculty.

LIBRARY, PRIZES, ETC.

The special Library of the Department, which has a permanent endowment for its support (the English Fund, established by the Hon. James E. English, M.A. in 1873), contains about nine thousand volumes, and is open daily and in the evening during term time. It embraces all the reports of Great Britain and America, with an extensive collection of text-books, and the leading legal periodicals. The students can also draw books from the general University libraries, containing over 200,000 volumes.

The following prizes are open to competition :

The **TOWNSEND PRIZE** (established by the Hon. James M. Townsend, in 1874), of one hundred dollars, to that member of the Senior Class who shall write and pronounce the best oration at the public anniversary exercises on graduation.

The **JEWELL PRIZE** (established by the Hon. Marshall Jewell, M.A., in 1871), of fifty dollars, to that member of the Senior Class who receives the highest marks at the final examination of his class, at their graduation.

The **BETTS PRIZE** (established by Frederic H. Betts, M.A., in 1875), of fifty dollars, to that member of the Junior Class who receives the highest marks at his annual examination.

The O. S. SEYMOUR PRIZE (established by the family of the late Hon. Origen S. Seymour, LL.D., in 1885), of sixty dollars, to that member of the graduating class who, in the opinion of the Faculty, has made the greatest improvement in scholarship during both years of his course.

The MUNSON PRIZE (established by C. LaRue Munson, LL.B., in 1890), of fifty dollars, for the best graduating thesis.

One Prize of fifty dollars, one Prize of thirty dollars, and one Prize of twenty dollars, to those three members of the Yale Kent Club, who, at a public competitive debate, are pronounced first, second, and third in excellence as debaters.

DEGREES

In the undergraduate course, the degree of Bachelor of Laws is conferred by the Corporation upon the recommendation of the Faculty of the Department, based on a satisfactory "pass" examination and the submission of a satisfactory thesis, on the following persons :

1st. Attorneys at Law, who have been members of the Department for one year after their admission to the Bar.

2d. Any students who have been members of the Department for not less than two years, and who passed satisfactorily the Junior "pass" examination at the end of their first year.

3d. Students who have been admitted to advanced standing as members of the Senior Class, and have remained in that Class for not less than one year.

The degree of Bachelor of Civil Law (B.C.L.) will be conferred, after a satisfactory examination and submission of a satisfactory thesis, on those who complete the second special course of two years. In the graduate course the degrees of Master of Laws (M.L.) and Doctor of Civil Law (D.C.L.) are conferred under the conditions before specified.

Degrees are awarded, in cases of students of unusual merit, *cum laude*, *magna cum laude*, or *summa cum laude*.

EXPENSES

The fees for tuition and use of the Law library in the undergraduate and first special courses are forty-five dollars for the Fall Term, thirty-five dollars for the Winter Term, and thirty-five dollars for the Spring Term, or one hundred dollars for the entire year if paid in advance ; and in the graduate and second special courses, for the first year, fifty dollars for the Fall Term, forty dollars for the Winter Term, and forty dollars for the Spring Term, or one hundred and twenty-five dollars for the whole year if paid in advance ; and for the second year, eighty dollars for the Fall Term, seventy dollars for the Winter Term, and seventy dollars for the Spring Term, or two hundred dollars for the whole year if paid in advance ; to be paid to the Treasurer of the University in advance, or secured by a bond with surety to his satisfaction. Where payment is not made in advance, interest will be added. All members of the Law Department are required to pay, in advance, an annual assessment of five dollars for the use of the University Library. The fee for graduation is five dollars. The tuition charges for special students vary in proportion to the amount of instruction and supervision required. Board and lodgings can be obtained at prices ranging from five dollars a week upwards.

For further particulars, inquiries may be addressed to Professor Francis Wayland, Dean of the Faculty.

LIBRARIES

ADDISON VANNAME, M.A., *Librarian*

FRANKLIN B. DEXTER, M.A., *Assistant Librarian*

J. SUMNER SMITH, B.A., *Librarian of the Linonian and Brothers
Library*

EDWARD J. F. WERDER, LL.B., *Assistant*

ANNIE E. HUTCHINS, *Assistant*

HENRY R. GRUENER, *Assistant*

Mrs. HENRIETTA C. GILBERT, *Assistant*

Mrs. JESSIE C. HARGER, *Assistant*

The Standing Committee in charge of the Library, appointed by the Corporation, consists of President DWIGHT, Professors SALISBURY, DAY, FISHER, NEWTON, and LOUNSBURY, and the Librarian.

The whole number of volumes in the several libraries of the University is over 200,000.

The UNIVERSITY LIBRARY contains about 165,000 volumes and many thousands of unbound pamphlets. For some years past the average annual increase has been about 5,000 volumes. Of current periodical publications, including publications of learned societies, the Library receives an unusually large number, the foreign serials alone being not less than five hundred. While designed especially for the use of the officers, resident graduates, and students of the several Departments of the University, other persons may have the privilege of consulting and, by permission of the Library Committee, of drawing books. The Library is open daily, except Sundays, in term-time, from 9:30 A. M. to 5 P. M. In the Winter vacation and through July it is open during the morning hours, and in the rest of Summer vacation on Monday, Wednesday, and Saturday mornings.

The new library building, erected by the munificence of the late Hon. Simeon B. Chittenden, of Brooklyn, N. Y., began to be occupied in 1890.

THE LINONIAN AND BROTHERS LIBRARY, occupying the south wing of the old Library building, contains about 30,000 volumes, to which additions of not far from one thousand volumes, chiefly of the best current literature, are annually made. It is designed primarily for the use of the students, and is open in term-time, daily, except Sundays, from 9:30 A. M. to 12 M., and from 1:30 to 4 P. M. In vacations it is open on Wednesdays and Saturdays from 10 A. M. to 12 M.

In addition to the periodicals received at the University Library there will be found in the Reading Room (in the north wing of the Library) fifty-three daily newspapers, American and foreign, sixty-two weeklies, and seventy periodicals. This is open daily in term-time from 9 A. M. to 8 P. M. (on Sundays from 1 to 8 P. M.).

In Dwight Hall, which is open daily from 7:45 A. M. to 9 P. M., will also be found forty-five newspapers and periodicals, mostly religious, and a library of nearly 1,000 volumes selected mainly with reference to the study of the Bible.

THE LAW LIBRARY, containing about 9,000 volumes, among which are included complete sets of the English, American, Irish, and Canadian Reports, occupies rooms adjoining those of the Law School in the County Court House. It is open daily in term-time from 8:30 A. M. to 12:45 P. M., and from 2 to 5:30 P. M. (except Saturday afternoon); in vacation from 9 A. M.

THE SHEFFIELD SCIENTIFIC SCHOOL LIBRARY, in Sheffield Hall, is a valuable collection of 6,000 volumes, chiefly mathematical.

THE TROWBRIDGE REFERENCE LIBRARY of the Divinity School, in Bacon Memorial Hall, contains over 3,000 volumes of standard and recent theological literature. It is open in term-time through the afternoons.

The LOWELL MASON LIBRARY OF CHURCH MUSIC, in West Divinity Hall, is accessible to those interested in the study of this subject. It embraces about 8,000 titles in 4,000 volumes.

The Art School has a Library of about 500 volumes.

The Library of the Medical School is incorporated in the University Library.

The Library of the American Oriental Society, consisting of about four thousand books and manuscripts, is deposited in the University Library building.

PEABODY MUSEUM OF NATURAL HISTORY

TRUSTEES

PROFESSOR JAMES D. DANA, PH.D., LL.D., *Chairman*

GOVERNOR LUZON B. MORRIS, M.A., *ex-officio*

HON. ROBERT C. WINTHROP, LL.D.

PROFESSOR GEORGE J. BRUSH, LL.D.

PROFESSOR OTHNIEL C. MARSH, PH.D., LL.D.

HON. GEORGE PEABODY WETMORE, M.A.

PROFESSOR EDWARD S. DANA, PH.D.

CURATORS

OTHNIEL C. MARSH, PH.D., LL.D., *Curator of the Geological Collection*

ADDISON E. VERRILL, M.A., *Curator of the Zoological Collection*

EDWARD S. DANA, PH.D., *Curator of the Mineralogical Collection*

In 1866, George Peabody, of London, but of Massachusetts birth, entrusted to a board of Trustees, selected by himself, the sum of \$150,000, "to found and maintain a Museum of Natural History, especially in the departments of Zoology, Geology, and Mineralogy, in connection with Yale College." Of this sum, \$100,000 was devoted by Mr. Peabody to the erection, "on land to be given for that purpose by the President and Fellows of Yale College, of a fire-proof building," "planned with special reference to its subsequent enlargement," to be, "when completed, the property of Yale College." Of the remainder of the gift, \$20,000 was set apart to "accumulate as a building fund," and \$30,000 to meet by its income from investment the expenses attending "the care of the Museum, the increase of its collections, and the general interests of the departments of science before named."

Ten years later, in 1876, the first wing of the Museum—the part now standing—was completed and furnished with

cases at a cost of \$175,000, the whole outlay being met by the accumulated building fund. The central part of the projected structure and the South wing—which will extend it to Library street—remain to be built whenever the means available for the purpose shall be adequate. The central part is much needed, as only a small part of the specimens secured can now be placed on exhibition in the first wing.

The first floor of the building is devoted to the department of Mineralogy and to the purposes of a large lecture-room. The minerals occupy cases in the west room, the door of which fronts the entrance to the Museum. The minerals of the Gibbs collection, deposited by Col. George Gibbs with the College in 1809-10, and purchased in 1825 at a cost of \$20,000, and the extensive accumulations since made, are here preserved and for the most part on exhibition, making it one of the largest public collections in the country. The private cabinet of Professor Brush, arranged in drawers in his private room on the same story, although not open to general exhibition, adds greatly to the means of study and investigation in this department. Besides minerals, the exhibition-room contains one of the largest collections of meteorites in the country; among the specimens, there are the famous mass of meteoric iron from Texas, weighing 1635 pounds; some hundreds of meteorites, large and small, all of which came from a single fall in Iowa, in May, 1879; the interesting Weston meteorite, which fell at Weston, Connecticut, in 1807, and was soon after described at length by Professors Silliman and Kingsley; besides many others of special interest. An important recent addition is a collection of meteorites numbering nearly one thousand which came from the great meteoric fall of May 2, 1890, in Winnebago County, Iowa. A case in the center of the room contains the large and beautiful collection of Chinese artistic work in stone, chiefly in jade and agate, with other like objects, bequeathed by Dr. S. Wells Williams, who was for forty-three years in China as Christian philanthropist, editor, author, and at-

taché to the American legation, and for some years before his decease was the Professor of Chinese in the University. The large room on the same story adjoining the Mineral room, on the north side of the hall, is arranged for mineralogical and blowpipe instruction, with desks and a students' cabinet of minerals, under the charge of Professor Penfield.

The second floor is given up to Geology and Palaeontology. The southern room contains vertebrate fossils. The latter are mostly collections made by Professor Marsh, in the Rocky-Mountain region and other parts of the West. In this room the first horizontal case to the left of the entrance contains specimens of *toothed* birds, mainly *Hesperornis* and *Ichthyornis*, discovered by Professor Marsh in the Cretaceous rocks of Kansas. Near by, in the first vertical case against the wall, are the bones of a large Mastodon from the Post-Pliocene of southern New York. In the second wall-case on the east side are the huge bones of the Miocene *Brontotheridae* from Dakota and Nebraska. In the two wall-cases at the southeastern corner are remains of the *Dinocerata*, large horned mammals from the Eocene of Wyoming. In the horizontal case adjoining may be seen two skeletons of gigantic Moas (*Dinornis*), extinct birds from New Zealand. In the center of the room are part of the bones of an enormous Dinosaur (*Brontosaurus*), sixty feet in length, from the Jurassic of Wyoming, and a large slab, standing vertically, showing the skeleton of a Mosasaur from the Chalk of Kansas. Behind this is a case containing the nearly complete skull of *Triceratops*, a gigantic Dinosaur from the Cretaceous of Wyoming. The horizontal case to the right of the entrance and the wall-case adjoining it on the west contain the remains of another Jurassic Dinosaur (*Stegosaurus*), about thirty feet long, which, as the specimens show, had a series of very large vertical plates along the back, and four pairs of immense spines on the tail. In the lower part of the next vertical case lies part of a thigh bone of *Atlantosaurus*, the largest of Dinosaurs

and of land animals yet known. A horizontal case on the south side of the room contains the feet of various animals, and among them the bones of the feet of three-toed and four-toed horses from the Tertiary of Nebraska and Wyoming. In the wall-case south of this are remains of the extinct Irish Elk, and over the case is the skull with the large antlers complete. At the southwestern corner of the room, the wall-cases contain the bones of *Morosaurus*, another Jurassic Dinosaur. In the adjoining horizontal case is a series of Eocene fishes from Utah.

The western exhibition-room is occupied mainly by a collection of invertebrate fossils, arranged zoologically. The first vertical case on the south is devoted chiefly to fossil sponges, among which the series of *Brachiospongidae* is the most notable. Then follow two cases of corals, with many fine examples from Kentucky, Ohio, and New York. The nine succeeding cases contain collections of crinoids, trilobites, crustacea, bryozoa, and fossil shells. Two large wall-cases on the eastern side of the room exhibit slabs and tablets of crinoids, mostly from Indiana. A third wall-case encloses a large slab measuring four by six feet, showing nearly thirty species of fossils represented by upwards of one hundred and forty individuals. One table-case contains a series illustrative of Dana's Manual of Geology, and a second is devoted to recent brachiopods.

The collections of invertebrate fossils are especially in charge of Assistant Professor Beecher.

Of the large collection of foot-prints belonging to the University, only a few fine slabs are on exhibition, part of them in each of the two exhibition-rooms of the second story. One of the most interesting is a slab about twelve feet long, covered throughout with raindrop impressions, and, besides these, two series of foot-prints of biped reptiles, one line of them extending the whole length of the slab.

The third story is occupied with the zoological collections so far as there is room for their exhibition. The gen-

eral zoological collection occupies the western room ; and nearly the whole has been accumulated since Professor Verrill took charge of the department. The specimens are well arranged for exhibition and all labelled. Facing the south door stands a vertical case devoted to the Sponges, among which are many species of the siliceous or glass sponges (*Euplectella*, etc.). Beyond the sponges, twelve cases are filled with the collection of corals, which is one of the most extensive in the country. These are followed by the Echinoderms, etc. Several cases are devoted to a collection of the marine invertebrates of New England, which is nearly complete. Other cases contain special collections of the shells and corals of the Pacific Coast of America ; of the corals of Bermuda ; of the shells of Florida, etc. The collections are rich in species from the deep-sea dredgings in the Atlantic, but only a small part are on exhibition. Overhead are models of two of the huge Cephalopods of the world : one, of twice the natural size, an Octopus from California, 28 feet in diameter (between the tips of opposite arms), and the other, of natural size, a species of the Newfoundland seas, related to the Squids, having enormous eyes, and a length from the posterior extremity to the tips of the longer arms, of 42 feet. The models were made for the zoological department by Mr. J. H. Emerton.

The southern exhibition-room of the zoological story contains a collection of skeletons in cases on its east and south sides, beginning near the door. These are deposited by Professor Marsh. The skeletons of mammals, beginning with man and the apes, occupy all the east side ; and then come the birds, reptiles, and fishes. The rest of the cases are occupied with collections of vertebrates, both mounted and alcoholic, and include a nearly complete series of the species inhabiting New England.

The second and third stories have also large laboratories and work-rooms, devoted to the department represented in the exhibition-rooms of the story. Those of the second

or geological story are in charge of Professor Marsh ; and those of the third or zoological story, besides serving for workrooms, are for the laboratory exercises and instruction of students in General Zoology under Professor Verrill. These rooms contain also large collections of specimens arranged in drawers and trays, which are open to special students in the department.

In the fourth story there is a large Archaeological collection. As the funds of the Museum are restricted to the departments of Mineralogy, Geology, and Zoology, the cases of the old Yale Museum were fitted up for this collection.

The basement is devoted to workrooms and storerooms, and contains a vast amount of specimens, in the departments especially of Palaeontology and Zoology. This part of the building is closed to visitors.

The exhibition-rooms of the Museum are open between 9 A. M. and 6 P. M., except in the winter, when the hours are from 9 A. M. to 5 P. M. The janitor of the building is Mr. J. Rice, 92 High street.

THE OBSERVATORY

BOARD OF MANAGERS

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THE OBSERVATORY has been built from the avails of the gift of the late Hon. Oliver F. Winchester, of New Haven, on land given by the late Mrs. Cornelia L. Hillhouse and her daughters. The principal astronomical instruments now in use are a six-inch Heliometer constructed by Messrs. Repsold, of Hamburg, and an eight-inch Equatorial by Messrs. Grubb, of Dublin, given by the late Mr. Edward M. Reed, of New Haven.

Besides its ordinary astronomical work, the Observatory maintains two public services. Continuous time-signals are transmitted from the distributing clock at the Observatory to the railroads and other parties. The Observatory offers facilities also to persons interested in accurate thermometry for the comparison of thermometers with standard instruments.

For the proper performance of these services the following equipment is in use :

1. Standard clocks, a transit instrument, chronographs, and the accessories for refined accuracy in the determination and transmission of time.

2. Apparatus for research and comparison in thermometry, including a collection of the best thermometers obtainable of the foreign makers and observatories which devote special attention to thermometric standards.

Descriptive circulars of the thermometric service may be obtained by addressing the Observatory.

By the will of Professor Elias Loomis, who died in 1889, the Observatory receives one-third of the income, and will ultimately receive the entire income, of a fund established by him and called *the Loomis Fund*. The income received is to be applied to one or more of the following objects only, namely, the payment of the salaries of observers whose time is exclusively devoted to the making of observations for the promotion of the science of astronomy, the reduction of astronomical observations, and the defraying the expense of publishing these observations and of publishing investigations based upon astronomical observations. The principal of the Loomis Fund is over three hundred thousand dollars.

UNIVERSITY PRIZES

The JOHN A. PORTER PRIZE, of the value of two hundred and fifty dollars, established by the Kingsley Trust Association in 1872, is offered for the best English Essay on a prescribed subject. Competing essays must be handed in after the close of the Spring Recess, and the award will be announced on Commencement Day. Any person who has been pursuing a regular course for a degree in any Department during the whole of the current College year, may compete for this prize. If none of the competing essays is of sufficient merit, the prize will not be awarded.

The subjects for Essays in 1894 are as follows :—

1. The Fourth Crusade and its effects.
2. The revival of heathenism in Rome in the third century.
3. The anti-semitic movement in Europe to-day.
4. Is the divorce from National and State politics practicable in our cities? Possible means of attaining this end: Good-government clubs, etc.
5. The social life of the New England village of to-day—a study in manners and morals.
6. The contribution of Holland to American institutions.
7. The policy of the United States with regard to the annexation of territory outside of its original limits of 1784.
8. Practicable methods of obviating the admitted evils connected with expert testimony in criminal cases.
9. The codification of our civil law—is it desirable? Best method, of attaining it: By a gradual codification according to the English method, or by an immediate and complete codification according to David Dudley Field's proposed method for New York State.
10. Poetry as a medium of philosophic teaching.
11. The development of the novel in the nineteenth century—Dickens to Ibsen.
12. The place of Sidney Lanier among American poets.
13. The attitude of the early Christian Church toward property: Points of contact with and departure from the teachings of Jesus.
14. The place of the Waldenses in Pre-Reformation History.

The essays, which should be signed by an assumed name and accompanied by a sealed envelope containing the writer's full name, will be due on May 1, at No. 105 Grove street, New Haven.

THE BENNETT PRIZE, being the income of a fund of one thousand dollars, given in 1893 by James Gordon Bennett, Esq., of New York City, is awarded annually on Commencement Day to that undergraduate member of the Senior Class in either the Academical Department or the Sheffield Scientific School, who shall have pursued courses in Political Science and English Literature, and shall have prepared the best essay, in English prose, upon some subject of contemporaneous interest in the domestic or foreign policy of the United States government, selected by the Faculty.

THE COBDEN CLUB SILVER MEDAL is awarded annually to that undergraduate of either the Academical Department or the Sheffield Scientific School who shows the greatest proficiency in the elements of Political Economy.

LISTS OF STUDENTS

DEPARTMENT OF PHILOSOPHY AND THE ARTS

COURSES OF GRADUATE INSTRUCTION

Ellen Cordelia Abbott, B.A. } Vassar College 1892	<i>West Haven, Conn.</i> West Haven
Francis Mulliken Adams, PH.B. } Yale University 1892	<i>New Haven, Conn.</i> 459 Prospect st.
Gertrude F. Adams, B.A. } Wellesley College 1882	<i>New Haven, Conn.</i> 6 Prospect pl.
Warren Austin Adams, B.A. } Yale University 1886	<i>Skaneateles, N. Y.</i> 102 N.
Arthur Chambers Alexander, PH.B. } Yale University 1889	<i>Honolulu, H. I.</i> 90 Whalley av.
Mary Adèle Allen, B.A. } Smith College 1886	<i>Holyoke, Mass.</i> 83 Grove st.
Edward Scribner Ames, B.A. } Drake University 1889, B.D. Yale University 1892	<i>Springfield, Ill.</i> 16 University pl.
Yokichi Aoki, } Doshisha Theol. School, Japan, 1890	<i>Okayama, Japan</i> 70 W. D.
John Whitney Avery, B.A. } Yale University 1893	<i>New Haven, Conn.</i> 276 Orange st.
Cecil Kittredge Bancroft, B.A. } Yale University 1891	<i>Andover, Mass.</i> 1161 Chapel st.
Arthur Seth Barnes, B.A. } Yale University 1892	<i>New Haven, Conn.</i> 518 George st.
Charlotte Cynthia Barnum, B.A. } Vassar College 1881	<i>New Haven, Conn.</i> 144 Humphrey st.
Clara Louisa Barnum, B.A. } Vassar College 1888	<i>New Haven, Conn.</i> 144 Humphrey st.
William Tenney Bartley, B.A. } Yale University 1891	<i>Malden, Mass.</i> 13 Lake pl.
John Beadle, B.A. } Yale University 1886	<i>New Haven, Conn.</i> 554 Chapel st.
Leslie Dayton Bissell, B.A. } Yale University 1887	<i>Keene, N. H.</i> 22 Whalley av.

Charles Bemis Bliss, PH.D. }	<i>Leonard Bridge, Conn.</i>
Yale University 1893 }	43 Whalley av.
Arthur Eli Booth, C.E. }	<i>Peace Dale, R. I.</i> 23 Lynwood st.
Yale University 1893 }	
Malcolm Booth, PH.B. }	<i>New Haven, Conn.</i>
Yale University 1893 }	23 Lynwood st.
Joseph Bowden, Jr., B.A. }	<i>New Haven, Conn.</i> 46 Lake pl.
Yale University 1891 }	
Frank Elmer Bradshaw, M.A. }	<i>Brookfield, Mo.</i> 57 Pearl st.
Vanderbilt University 1892 }	
Margaret Rooker Bradshaw, M.A. }	<i>Brookfield, Mo.</i> 57 Pearl st.
Vanderbilt University 1893 }	
Edward Shepard Bromer, B.A. }	<i>Schwenksville, Pa.</i> 23 E. D.
Ursinus College 1890, }	
B.D. Yale University 1893 }	
Emily M. Brown, B.A. }	<i>Kobe, Japan</i> 56 Grove st.
Carleton College 1882 }	
Francis Theodore Brown, B.A. }	<i>North Adams, Mass.</i>
Yale University 1891 }	116 College st.
Edward Franklin Buchner, PH.D. }	<i>Gibson City, Ill.</i>
Yale University 1893 }	102 Edgewood av.
Henry Andrews Bumstead, B.A. }	<i>New Haven, Conn.</i> 83 Grove st.
Johns Hopkins University 1891 }	
Jean du Buy, J.U.D. }	<i>Berlin, Germany</i> 77 Grove st.
Heidelberg University 1889 }	
George Flavius Campbell, PH.B. }	<i>New Haven, Conn.</i>
Yale University 1892 }	277 Dixwell av.
Alfred C. Carlson, B.A. }	<i>Ansonia, Conn.</i> 135 St. John st.
Gustavus Adolphus Coll. 1890 }	
Kozo Samuru Chiba	<i>Tokyo, Japan</i> 64 Lake pl.
Kate Holladay Claghorn, B.A. }	<i>Brooklyn, N. Y.</i> 83 Grove st.
Bryn Mawr College 1892 }	
Noyes Dwight Clark, PH.B. }	<i>Woodbridge, Conn.</i> 199 York st.
Yale University 1891 }	
John Williams Coe, PH.B. }	<i>Meriden, Conn.</i> 22 Lynwood st.
Yale University 1893 }	
Wesley Roswell Coe, PH.B. }	<i>Middlefield, Conn.</i>
Yale University 1892 }	2 Hillhouse av.
Egbert Wheeler Cornwall, PH.B. }	<i>Patterson, N. Y.</i> 397 Crown st.
Yale University 1892 }	
Harlan Creelman, B.D. }	<i>Worthington, Mass.</i>
Yale University 1889 }	77 Mansfield st.
Anna Alice Cutler, B.A. }	<i>New Haven, Conn.</i>
Smith College 1885 }	284 Orange st.
Eleanor Evelyn Cutler, B.A. }	<i>New Haven, Conn.</i>
Smith College 1892 }	284 Orange st.
Henry Davies, B.D. }	<i>Green's Farms, Conn.</i>
Yale University 1888 }	701 Chapel st.

Arthur Louis Day, B.A. } Yale University 1892 }	Westborough, Mass. 25 High st.
Clive Day, B.A. } Yale University 1892 }	Hartford, Conn. 101 W. D.
Schmucker Duncan, B.A. } Gettysburg College 1891 }	Gettysburg, Pa. 35 Lynwood st.
Winthrop Edwards Dwight, B.A. } Yale University 1893 }	New Haven, Conn. 126 College st.
Elizabeth Eastman, B.A. } Smith College 1886 }	San Francisco, Cal. 56 Grove st.
Edwin Horace Forbes, PH.B. } Yale University 1874 }	Torrington, Conn. Torrington
Edward Grier Fullerton, B.A. } University of Pennsylvania 1883 }	Bridgeport, Conn. Bridgeport
Henri Comstock Garneau, B.A. } St. Louis University 1893 }	St. Louis, Mo. 126 Wall st.
William John Gies, B.S. } Gettysburg College 1893 }	Manheim, Pa. 114 High st.
Joshua Allen Gilbert, B.A. } Otterbein University 1889 }	Dayton, O. 34 Hillhouse av.
George Herbert Girty, B.A. } Yale University 1892 }	Cleveland, O. 559 Howard av.
Mary Graham, PH.B. } Wesleyan University 1889 }	Middletown, Conn. 335 Orange st.
William Anthony Granville, PH.B. } Yale University 1893 }	New Haven, Conn. 96 Greene st.
Maria Louise Greene, B.A. } Vassar College 1891 }	Providence, R. I. 90 York sq.
Matthew Griswold, Jr., PH.B. } Yale University 1888 }	Erie, Pa. A.
Alexander Hadlock, B.A. } Kalamazoo College 1878 }	Kalamazoo, Mich. 84 Park st.
Elizabeth Deering Hanscom, M.A. } Boston University 1893 }	Lowell, Mass. 83 Grove st.
Josiah Harmar, PH.B. } Yale University 1892 }	Philadelphia, Pa. A.
Theodore Woolsey Heermance, B.A. } Yale University 1893 }	New Haven, Conn. 83 Wall st.
Harold Hegstrom, B.A. } Augustana College 1890 }	Buffalo, N. Y. 149 St. John st.
William Thos. Hildrup Howe, PH.B. } Yale University 1893 }	Killingworth, Conn. 53 Prospect st.
James B. Hughes, B.A. } Indiana University 1889 }	Redwood City, Cal. 25 Admiral st.
Arthur May Hyde, B.A. } Yale University 1889 }	Rockville, Conn. 384 Crown st.
Charles Anthony Ingersoll, PH.B. } Yale University 1893 }	New Haven, Conn. 24 Elm st.

James W. D. Ingersoll, B.A. } Yale University 1892	Marengo, Ill.	90 Park st.
Charles Samuel Ingham, B.A. } Yale University 1891	Saybrook, Conn.	116 College st.
Henry Harrington Janeway, B.A. } Rutgers College 1893	New Brunswick, N. J.	137 Wall st.
Jesse Breland Johnson, B.A. } Yale University 1893	Cookville, Tex.	29 Lake pl.
Ulysses Simpson Grant Kendall, LL.B. } Yale University 1893	Pittsburgh, Pa.	116 Howe st.
Paul Klimpke, B.A. } Yale University 1893	Hartford, Conn.	53 Prospect st.
James Hall Mason Knox, Jr., B.A. } Yale University 1892	New Haven, Conn.	84 Wall st.
Hiromichi Kozaki, } Doshisha Theol. School, Japan, 1879	Kyoto, Japan	55 Clark st.
David Albert Kreider, B.A. } Lebanon Valley College 1892	Annville, Pa.	266 York st.
Nils Erik Kron, M.A. } Augustana College 1893	Rockford, Ill.	135 St. John st.
Ralph Henry Kunstadter, } Budapest Oberrealschule 1890	New York City	281 Crown st.
Thomas Jay Lloyd, B.A. } Yale University 1890	New Haven, Conn.	43 Whalley av.
Walter Irenæus Lowe, B.A. } Yale University 1890	New Haven, Conn.	43 Whalley av.
Frank Ranney Luckey, B.S. } Cornell University 1882, B.D. Yale University 1888	New Haven, Conn.	21 Eld st.
Boynton Wells McFarland, C.E. } Yale University 1891	New Haven, Conn.	420 Temple st.
Charles Eugene McLane, PH.B. } Yale University 1893	Baltimore, Md.	227 Crown st.
Frank LeRond McVey, B.A. } Ohio Wesleyan Univ. 1893	Des Moines, Iowa	75 Broadway
Richard Fisher Manning, PH.B. } Yale University 1892	Brooklyn, N. Y.	A.
Milton Mozart Marble, B.A. } Harvard Univ. 1889	New Haven, Conn.	244 Oak st.
William Crosby Marshall, PH.B. } Yale University 1890	Cromwell, Conn.	117 Park st.
Lafayette Benedict Mendel, PH.D. } Yale University 1893	New Haven, Conn.	22 Trumbull st.
Robert Reitzell Miller, B.S. } Gettysburg College 1893	Pine Grove, Pa.	114 High st.
James Lee Mitchell, B.A. } Harvard University 1884	New Haven, Conn.	238 Grand av.
John Munroe Moore, B.A. } National Normal Univ. 1887	Morgantown, Ky.	51 Garden st.

William Sacheus Morgan, B.D. }	<i>Pontypool, S. Wales</i> 571 Elm st.
Yale University 1892 }	
Edwin Morrison, PH.B. }	<i>Cincinnati, O.</i> A.
Yale University 1887 }	
Henry Hotchkiss Murray, PH.B. }	<i>Viola, Del.</i> 54 Garden st.
Yale University 1893 }	
August Nelson, B.A. }	<i>Lake City, Minn.</i> 135 St. John st.
Gustavus Adolphus College 1890 }	
William Allan Osborn, B.A. }	<i>Cleveland, O.</i> 332 Temple st.
Yale University 1893 }	
Margaretta Palmer, B.A. }	<i>Branford, Conn.</i> Branford
Vassar College 1887 }	
Alfred John Pearson, B.A. }	<i>Conway, Kansas</i> 116 St. John st.
Bethany College, Kansas, 1893 }	
Alton William Peirce, B.A. }	<i>Athol Centre, Mass.</i> 117 Elm st.
Yale University 1893 }	
John Inglee Phinney, B.A. }	<i>Machias, Me.</i> 70 N. M.
Yale University 1892 }	
Mary Merrill Pitcher, M.A. }	<i>Owego, N. Y.</i> 58 Grove st.
Cornell University 1884 }	
Miles Albion Pond, PH.B. }	<i>Torrington, Conn.</i> 60 Lyon st.
Yale University 1892 }	
Joseph Hyde Pratt, PH.B. }	<i>Hartford, Conn.</i> 414 Crown st.
Yale University 1893 }	
Clifton Price, B.A. }	<i>Ithaca, N. Y.</i> 131 Howe st.
Cornell University 1889 }	
Frank Russell Rich, PH.B. }	<i>New Haven, Conn.</i> 297 Crown st.
Yale University 1890 }	
George Samuel Richards, B.D. }	<i>Mahanoy City, Pa.</i> 701 Chapel st.
Yale University 1891 }	
Charlotte Fitch Roberts, B.A. }	<i>Greenfield, Mass.</i> 37 Howe st.
Wellesley College 1880 }	
Cornelia H. Bulkley Rogers, B.A. }	<i>Bridgeport, Conn.</i> Bridgeport
Wellesley College 1884 }	
Miriam Nancy Shelton Rogers, M.A. }	<i>Bridgeport, Conn.</i> Bridgeport
Cornell University 1891 }	
Sara Bulkley Rogers, M.A. }	<i>Bridgeport, Conn.</i> 83 Grove st.
Cornell University 1891 }	
Charles Augustus Schumaker, B.A. }	<i>Parish, N. Y.</i> 70 Howe st.
Yale University 1892 }	
Edmund Daniel Scott, B.A. }	<i>New Haven, Conn.</i> 44 Vernon st.
Yale University 1889 }	
Mary Augusta Scott, M.A. }	<i>New York City</i> 294 Elm st.
Vassar College 1882 }	
Florence May Scovill, B.A. }	<i>Montpelier, Vt.</i> 184 Wooster st.
Smith College 1893 }	
Carl E. Seashore, B.A. }	<i>Dayton, Iowa</i> 149 St. John st.
Gustavus Adolphus Coll. 1891 }	

Hubert Merrill Sedgwick, B.A. }	<i>Bondsville, Mass.</i> 109 Temple st.
Yale University 1893 }	
Sarah Margaret Sherrick, PH.B. }	<i>Everson, Pa.</i> 92 York sq.
Otterbein University 1889 }	
Eleanor Sherwin, B.A. }	<i>Plainfield, N. J.</i> 379 Crown st.
Wellesley College 1889 }	
Mary Appleton Shute, B.A. }	<i>Northampton, Mass.</i>
Smith College 1887 }	591 Orange st.
Cotton Atwood Smith, B.S. }	<i>North Hadley, Mass.</i>
Mass. Agric. Coll. 1893 }	347 Crown st.
Theodate Louise Smith, M.A. }	<i>Framingham, Mass.</i>
Smith College 1884 }	32 Trumbull st.
Frederic Clarence Spencer, PH.B. }	<i>Old Saybrook, Conn.</i>
Yale University 1893 }	411 Temple st.
M. Victor Staley, B.A. }	<i>Oshkosh, Wisc.</i> 125 Dwight st.
University Wisconsin 1893 }	
George Pratt Starkweather, PH.B. }	<i>New Haven, Conn.</i> 344 Cedar st.
Yale University 1891 }	
Thomas Calhoun Stearns, B.A. }	<i>New Haven, Conn.</i>
Yale University 1886 }	12 University pl.
Alfred Hull Stevens, PH.B. }	<i>Clinton, Conn.</i> 1245 Chapel st.
Yale University 1893 }	
Annie Viola Stevens, B.A. }	<i>Lewiston, Me.</i> 144 Greene st.
Bates College 1892 }	
Susan Dinsmore Tew, B.A. }	<i>Jamestown, N. Y.</i> 57 Grove st.
Smith College 1892 }	
George Clarence Thompson, B.A. }	<i>Sanford, N. C.</i> 383 George st.
Wake Forest College 1888 }	
Guy VanGorder Thompson, B.A. }	<i>Grand Rapids, Mich.</i> 58 s. m.
University of Colorado 1888 }	
Annie Bennett Tomlinson, B.A. }	<i>Shelton, Conn.</i> 18 Trumbull st.
Wellesley College 1893 }	
Kazutami Ukita, }	<i>Kyoto, Japan</i> 55 Clark st.
Doshisha Theol. School, Japan, 1879 }	
Alice Vinton Waite, B.A. }	<i>Omaha, Nebr.</i> 83 Grove st.
Smith College 1886 }	
Charles Henry Adams Wager, B.A. }	<i>Cohoes, N. Y.</i> 18 Dwight st.
Colgate University 1892 }	
Alfred John Wakeman, PH.B. }	<i>New Haven, Conn.</i> 72 Clark st.
Yale University 1887 }	
Percy Talbot Walden, PH.B. }	<i>Brooklyn, N. Y.</i> 338 Orange st.
Yale University 1892 }	
Clara R. Walker, B.A. }	<i>Canton, N. Y.</i> 83 Grove st.
Wellesley College 1886 }	
John Dorrance Warnock, B.A. }	<i>Geneva, N. Y.</i> 122 Howe st.
Yale University 1893 }	
William Morris Weller, B.A. }	<i>Cumberland, Md.</i> 59 Wall st.
Western Maryland College 1889 }	

Lemuel Aiken Welles, B.A. }		<i>Newington, Conn.</i> 82 Broadway
Yale University 1893		
Arthur Leslie Wheeler, B.A. }		<i>Hartford, Conn.</i> 1368 Chapel st.
Yale University 1893		
Charles Mallory Williams, B.A. }		<i>Brooklyn, N. Y.</i> 2 Hillhouse av.
Brooklyn Polytechnic Inst. 1890,		
PH.B. Yale University 1892		
Clarence Cicero Wilson, B.A. }		<i>Avon, Conn.</i> 57 N. S. H.
Yale University 1892		
Alice Mason Wing, B.A. }		<i>Springfield, Mass.</i> Springfield
Vassar College 1878		
Laura Johnson Wylie, B.A. }		<i>Brooklyn, N. Y.</i> 83 Grove st.
Vassar College 1877		
Charles Hamline Zimmerman, B.A. }		<i>Evanston, Ill.</i> 22 Trumbull st.
Northwestern University 1891		

GRADUATE STUDENTS, 143

ACADEMICAL DEPARTMENT (YALE COLLEGE)

SENIOR CLASS

Samuel Stokes Allen	<i>Philadelphia, Pa.</i>	122 N.
William Boyd Allison, Jr.	<i>Dubuque, Iowa</i>	138 F.
Gustav Albert Andreen, B.A. } Augustana College 1881	<i>Lindsborg, Kansas</i>	116 St. John st.
Thomas Shaw Arbuthnot	<i>Pittsburgh, Pa.</i>	217 D.
Raymond Holbrook Arnot	<i>Exeter, N. H.</i>	142 F.
William Bacon Bailey	<i>Springfield, Mass.</i>	69 N. M.
Harry Samuel Bandler	<i>Owego, N. Y.</i>	264 L.
Alexis Painter Bartlett	<i>Farmington, Conn.</i>	295 W.
William Spencer Beard	<i>South Killingly, Conn.</i>	124 N.
André Alden Beaumont	<i>Wilkes-Barré, Pa.</i>	86 W. D.
Albert Anson Bigelow	<i>St. Paul, Minn.</i>	250 L.
Charles Benjamin Bishop, Jr.	<i>Litchfield, Conn.</i>	53 S. M.
Clinton Spencer Bissell	<i>Litchfield, Conn.</i>	85 N. M.
Samuel Burr Sherwood Bissell	<i>New York City</i>	287 W.
Edward Richmond Bosley	<i>Geneseo, N. Y.</i>	156 F.
Frederick Merrell Boyer	<i>Watertown, N. Y.</i>	172 F.
Albert Simmons Briggs	<i>North Dighton, Mass.</i>	69 N. M.
Edward Harold Bronson	<i>Norwich, Conn.</i>	74 N. M.
Samuel Palmer Brooks, B.A. } Baylor University 1893	<i>Cleburne, Tex.</i>	57 Lake pl.
Alphonso Bickford Brown	<i>Dover, N. H.</i>	124 N.
James Crosby Brown	<i>New York City</i>	325 W.
James Elwyn Brown	<i>Pittsburgh, Pa.</i>	324 W.
Pratt Anthony Brown, B.A. } Mercer University 1892	<i>Macon, Ga.</i>	277 L.
Albert Henry Buck	<i>Baltimore, Md.</i>	285 W.
Charles Herbert Buell	<i>Brooklyn, N. Y.</i>	274 L.
Henry Walter Bunn	<i>Richmond Hill, N. Y.</i>	147 F.
Frank Scott Bunnell	<i>Stratford, Conn.</i>	252 L.
Calvin Burr	<i>Auburn, N. Y.</i>	294 W.
John Cadwalader, Jr., B.A. } Univ. of Pa. 1893	<i>Philadelphia, Pa.</i>	37 College st.
Walter Reid Callender	<i>Providence, R. I.</i>	201 D.
James William Cantwell, B.A. } Baylor University 1893	<i>Waco, Tex.</i>	29 Lake pl.
Ira Merrill Carley	<i>New Haven, Conn.</i>	133 College st.
George Bowen Case	<i>Kansas City, Mo.</i>	180 LYC.

Patrick Joseph Cassidy	Norwich, Conn.	101 N.
John Payson Chamberlain	Seneca Falls, N. Y.	254 L.
Frederick Shepard Chapman	Saybrook, Conn.	43 S. M.
Frank Herbert Chase	Haverhill, Mass.	133 College st.
William Genung Chase	Penn Yan, N. Y.	90 N. M.
William Henry Clark, Jr.	Saginaw, Mich.	289 W.
Ward Robinson Clarke	Candor, N. Y.	181 LYC.
Alexander Sessums Cleveland, B.A. } Univ. of the South 1893	Houston, Tex.	230 D.
William Davis Cleveland, Jr., B.A. } Univ. of the South 1893	Houston, Tex.	230 D.
Thomas Cochran, Jr.	St. Paul, Minn.	227 D.
Joseph Platt Cooke	Oakland, Cal.	266 L.
William Clayton Crafts	Austin, Ill.	231 D.
Erastus Milo Cravath, Jr.	Nashville, Tenn.	299 W.
Charles Frederic Crawford	Chicago, Ill.	201 D.
George Marshall Crawford	Topeka, Kansas	132 F.
Ferdinand Swift Crossley	Springfield, Mass.	157 F.
Walter Barnes Crutenden	East River, Conn.	43 S. M.
Thomas Frederick Davies, Jr.	Detroit, Mich.	328 W.
Henry Shepherd Dawson	New Haven, Conn.	142 Dwight st.
Edward Marvin Day	Colchester, Conn.	247 L.
Charles I. DeBevoise	Brooklyn, N. Y.	289 W.
Allen Ross Defendorf	Fairport, N. Y.	128 N.
Arthur Gillespie Dickson	Philadelphia, Pa.	209 D.
Loten Abijah Dinsmoor	Warren, Pa.	131 Howe st.
Alexander Samuel Diven	Elmira, N. Y.	297 W.
Bayard Dominick, Jr.	New York City	319 W.
George Francis Dominick, Jr.	New York City	254 L.
George Elias Dorland	Buffalo, N. Y.	259 L.
Winthrop Hillyer Duncan	Lowell, Mass.	140 F.
Casselberry Dunkerson	Evansville, Ind.	330 W.
Harry Westbrook Dunning	Boston, Mass.	128 N.
Frederick Dwight	Brooklyn, N. Y.	182 LYC.
George Francis Eaton	New Haven, Conn.	70 Sachem st.
Theodore Eaton	Wakefield, Mass.	125 N.
Thomas Long Ellis	Portland, Me.	57 S. M.
Arthur Wells Elting	Upper Red Hook, N. Y.	72 N. M.
Henry Lane Eno	Saugatuck, Conn.	325 W.
Wilber Leslie Evans, B.A. } Knox College 1893	Austin, Tex.	336 George st.
John Mackintosh Ferguson	Pittsburgh, Pa.	218 D.
Albert Nelson Cheney Fowler	Glens Falls, N. Y.	321 W.
George Howard Fox	New York City	225 D.
Clinton Hart Furbish	Spencerport, N. Y.	105 N.

Fred D. Gallup	<i>Smethport, Pa.</i>	274 L.
Winfred Ernest Garrison, B.A. }	<i>St. Louis, Mo.</i>	106 N.
Eureka College 1892		
Edward Joseph Garvan	<i>Hartford, Conn.</i>	156 F.
Charles Henry George	<i>Milwaukee, Wisc.</i>	218 D.
Merwin Jephtha Gibbons	<i>New Haven, Conn.</i>	138 Park st.
Louis Packard Gillespie	<i>New York City</i>	66 W. D.
Thomas Warrington Gosling	<i>Cincinnati, O.</i>	142 F.
John Henry Goss	<i>Waterbury, Conn.</i>	211 D.
Allen Greeley	<i>Jacksonville, Fla.</i>	138 F.
Gervase Green	<i>St. Helens, England</i>	127 N.
Nathan Williams Green	<i>Worcester, Mass.</i>	272 L.
Warren W. Guthrie, Jr.	<i>Atchison, Kan.</i>	327 W.
Charles Henry Hall, Jr.	<i>Brooklyn, N. Y.</i>	252 L.
John Loomer Hall	<i>Willimantic, Conn.</i>	304 W.
Frank Manson Haradon	<i>Marshalltown, Iowa</i>	143 F.
Meredith Hare	<i>New York City</i>	284 W.
Amos Thompson Harrington	<i>Lyons, N. Y.</i>	241 Sherman av.
James Anderson Hawes	<i>New York City</i>	288 W.
Fidelio Sharp Henry	<i>Chicago, Ill.</i>	287 W.
George Cooley Hixon	<i>La Crosse, Wisc.</i>	296 W.
Ralph Winthrop Holmes	<i>West Winsted, Conn.</i>	326 W.
Hamilton Holt	<i>Spuyten Duyvil, N. Y.</i>	218 D.
Edwin Olaf Holter	<i>Helena, Mont.</i>	204 D.
Walter Deyo Hood	<i>Auburn, N. Y.</i>	105 N.
Lloyd Mortimer Howell	<i>West Hampton Beach, N. Y.</i>	279 L.
John Howland	<i>New York City</i>	222 D.
Charles Nelson Hulburt	<i>Norwich, Conn.</i>	106 N.
Ralph Squire Hull	<i>Scranton, Pa.</i>	140 F.
Caleb Samuel Jackson	<i>Bronxville, N. Y.</i>	310 W.
Robert Campbell James	<i>Baltimore, Md.</i>	297 W.
Charles Orlando Jenkins	<i>Cleveland, O.</i>	59 S. M.
James Sinclair Jenkins	<i>Stamford, Conn.</i>	222 D.
Nathan Hall Jewett	<i>Buffalo, N. Y.</i>	229 D.
Lawrence Bullard Jones	<i>Wilkes-Barré, Pa.</i>	285 W.
Arthur Judson	<i>Montclair, N. J.</i>	37 College st.
Frederick Love Keays	<i>North Berwick, Me.</i>	61 S. M.
Sarkis Couzu Kebabian	<i>Rodosto, Turkey</i>	62 Lake pl.
Herbert Humphrey Kellogg	<i>Carthage, Mo.</i>	80 N. M.
Jacob Fry Kempfer, B.A. }	<i>Beaver Springs, Pa.</i>	125 Dwight st.
Penns. College 1893		
Charles Garfield King	<i>Chicago, Ill.</i>	224 D.
Rufus King	<i>Cincinnati, O.</i>	260 L.
Edward Kirkland	<i>Utica, N. Y.</i>	167 F.

Ernest Knaebel	<i>Santa Fé, N. M.</i>	61 S. M.
Charles David Kyle	<i>Cayuga, N. Y.</i>	Dwight Hall
Clarence Hinman Lake	<i>New Haven, Conn.</i>	120 N.
George Bigelow Bartlett Lamb	<i>New Haven, Conn.</i>	584 Chapel st.
Howard Asa Lamprey	<i>Laconia, N. H.</i>	119 N.
John Edward Lane	<i>North Hadley, Mass.</i>	347 Crown st.
Edward Herman Lay	<i>Fulton, Ill.</i>	88 N. M.
William Henry Leete	<i>Thompsonville, Conn.</i>	119 N.
James Patrick Linahan	<i>New Haven, Conn.</i>	175 F.
Albert William Lindeke	<i>St. Paul, Minn.</i>	203 D.
Charles Pleasants Lineaweaver	<i>Pottsville, Pa.</i>	164 F.
Raymond Lloyd	<i>Cincinnati, O.</i>	237 D.
Frederick Ayres Lockwood	<i>Norwalk, Conn.</i>	237 D.
Ralph Longenecker	<i>Bedford, Pa.</i>	222 Crown st.
Ralph Reed Lounsbury	<i>Hartford, Conn.</i>	125 N.
Walter Whitney Lounsbury	<i>New Haven, Conn.</i>	164 F.
Charles Noyes Loveland	<i>Wilkes-Barre, Pa.</i>	226 D.
Dean Belden Lyman	<i>Salt Lake City, Utah</i>	217 D.
Frederick Henry Lynch	<i>Peace Dale, R. I.</i>	192 C.
George Day McBirney	<i>Chicago, Ill.</i>	316 W.
William Wickliffe McCandless	<i>Pittsburgh, Pa.</i>	222 Crown st.
Edward Hill McCray	<i>Rockville, Conn.</i>	75 N. M.
Hall Park McCullough	<i>Bennington, Vt.</i>	212 D.
Frank Elmer McDuffee	<i>Bradford, Vt.</i>	101 N.
Buell McKeever	<i>Chicago, Ill.</i>	210 D.
Winthrop McKim	<i>New York City</i>	324 W.
Kirk Crawford McKinney	<i>Pueblo, Col.</i>	291 W.
Harry Brent Mackoy	<i>Covington, Ky.</i>	286 W.
Philip Hamilton McMillan	<i>Detroit, Mich.</i>	178 LYC.
Sanford Bouck Martin, B.A. } Penns. College 1890, LL.B. Yale Univ. 1892 }	<i>Gettysburg, Pa.</i>	1010 Chapel st.
John Albert Matthewman	<i>New Haven, Conn.</i>	561 Howard av.
Guy Bryan Miller	<i>New Rochelle, N. Y.</i>	291 W.
Pendleton Miller	<i>Olympia, Wash.</i>	148 F.
Winlock William Miller	<i>Olympia, Wash.</i>	148 F.
Arthur Mitchell, Jr.	<i>New York City</i>	53 S. M.
William Russell Moorhouse	<i>Chicago, Ill.</i>	264 L.
Joseph Elias Morgan	<i>Essex, Conn.</i>	127 N.
John Edward Morley	<i>Saginaw, Mich.</i>	280 L.
Henry Perkins Moseley	<i>New Haven, Conn.</i>	286 W.
Oliver Clayton Mosman	<i>St. Joseph, Mo.</i>	232 D.
Walter Fletcher Murray	<i>Plainfield, N. J.</i>	229 D.
Robert Hastings Nichols	<i>Binghamton, N. Y.</i>	162 F.

Alvin Probasco Nipgen	<i>Chillicothe, O.</i>	42 S. M.
Henry Shore Noon	<i>Gloucester, Mass.</i>	191 C
George William Olmsted	<i>Buffalo, N. Y.</i>	305 W.
Samuel Lowry Orr	<i>Evansville, Ind.</i>	330 W.
Charles Grosvenor Osgood, Jr.	<i>Wellsborough, Pa.</i>	190 C.
Ralph Delahay Paine	<i>St. Augustine, Fla.</i>	224 D.
Frederick Curtis Perkins	<i>Sharon, Pa.</i>	320 W.
Henry Bishop Perkins, Jr.	<i>Warren, O.</i>	320 W.
Frederick Torrel Persons	<i>Sandisfield, Mass.</i>	60 S. M.
Ansel Phelps	<i>New York City</i>	248 L.
Isaac King Phelps	<i>Thompsonville, Conn.</i>	88 N. M.
Decius Latimer Pierson	<i>Hartford, Conn.</i>	295 W.
Frank Lyon Polk	<i>New York City</i>	221 D.
Alfred Macauley Pope	<i>St. Louis, Mo.</i>	272 L.
Alonzo Potter	<i>New York City</i>	221 D.
James Tracy Potter	<i>North Adams, Mass.</i>	231 D.
Warwick James Price	<i>Cleveland, O.</i>	1044 Chapel st.
Ralph Pringle, B.A. } Monmouth College 1893 }	<i>Red Oak, Iowa</i>	64 Lake pl.
Edward Franklin Raymond	<i>Chicago, Ill.</i>	137 F.
William Miner Raymond	<i>Chicago, Ill.</i>	305 W.
Edward John Redington	<i>Syracuse, N. Y.</i>	1090 Chapel st.
Edward Bliss Reed	<i>Holyoke, Mass.</i>	212 D.
Harry Simeon Richardson	<i>Chicago, Ill.</i>	280 L.
Ernest Lauren Robinson	<i>Meriden, Conn.</i>	75 N. M.
Philip Fletcher Rogers	<i>Milwaukee, Wisc.</i>	210 D.
Charles Philemon Rowley	<i>Poughkeepsie, N. Y.</i>	157 F.
Albert Thorpe Ryan	<i>Washington, D. C.</i>	132 F.
George Hope Ryder	<i>Plainfield, N. J.</i>	193 C.
William Henry Sallmon	<i>London, Canada</i>	Dwight Hall
Walter Edward Sanders	<i>Auburndale, Mass.</i>	104 N.
Charles William Saunders	<i>Worcester, Mass.</i>	57 S. M.
James Cowan Sawyer	<i>Dover, N. H.</i>	294 W.
Origen Storrs Seymour	<i>Litchfield, Conn.</i>	328 W.
Joseph Earl Sheffield	<i>Attleboro, Mass.</i>	322 W.
Harry Shevelson Silverstein	<i>Denver, Col.</i>	64 S. M.
Eugene Wilson Skelton	<i>Brooklyn, N. Y.</i>	103 N.
Charles Rives Skinner	<i>St. Louis, Mo.</i>	322 W.
Charles Albert Smith	<i>Bridgeport, Conn.</i>	147 F.
Howard Franklin Smith	<i>Hartford, Conn.</i>	122 N.
Leonard Bacon Smith	<i>New York City</i>	236 D.
Letchworth Smith	<i>Auburn, N. Y.</i>	250 L.
Rest Fenner Smith, Jr.	<i>East Orange, N. J.</i>	103 N.
Charles James Sniffen	<i>Stratford, Conn.</i>	147 F.

John Beach Solley, Jr.	<i>Brooklyn, N. Y.</i>	228 D.
Carl Frederic Stahl	<i>New Haven, Conn.</i>	556 Chapel st.
Walter Eugene Stewart, Jr.	<i>Plainfield, N. J.</i>	228 D.
Leland Stanford Stillman	<i>Brooklyn, N. Y.</i>	227 D.
Alfred Worthington Stone	<i>New York City</i>	279 L.
Edward Merrell Stothers	<i>Staten Island, N. Y.</i>	72 N. M.
Andrew Sandford Taylor	<i>South Orange, N. J.</i>	74 N. M.
James Henry Taylor	<i>Charleston, S. C.</i>	247 L.
Edward Russell Thomas	<i>New York City</i>	326 W.
William Edward Thoms	<i>Waterbury, Conn.</i>	162 F.
William Josiah Tilson	<i>Clear Branch, Tenn.</i>	91 N. M.
William Todd	<i>Calais, Me.</i>	206 D.
Ralph Tousey	<i>Brooklyn, N. Y.</i>	256 L.
George Marcy Townsend	<i>Hartford, Conn.</i>	256 L.
James Rutherford Trowbridge	<i>Chicago, Ill.</i>	226 D.
Henry Brownell Tucker	<i>Troy, N. Y.</i>	206 D.
Willard Gibbs VanName	<i>New Haven, Conn.</i>	121 High st.
George Finch VanSlyck	<i>New York City</i>	193 C.
William Stuart Walcott, Jr.	<i>New York Mills, N. Y.</i>	180 LYC.
James Alexander Waller	<i>Chicago, Ill.</i>	321 W.
Milton Jones Warner	<i>Salisbury, Conn.</i>	211 D.
Walter Abbott Waterman	<i>Griswold, Conn.</i>	120 N.
Frederic Jabez Waters	<i>Cincinnati, O.</i>	60 S. M.
Harry Little Welch	<i>New Haven, Conn.</i>	209 D.
Shelton King Wheeler	<i>Chattanooga, Tenn.</i>	266 L.
Larz Augustus Whitcomb, B.A. } De Pauw Univ. 1893 }	<i>Clinton, Ind.</i>	38 Lynwood st.
Ellsworth Daggett Whiting	<i>Aurora, Ill.</i>	172 F.
Jay Edmund Whiting	<i>Granville, N. Y.</i>	134 College st.
Harry Payne Whitney	<i>New York City</i>	178 LYC.
James Dawes Williams	<i>North Adams, Mass.</i>	160 F.
Nathaniel Niles Wilson	<i>San Francisco, Cal.</i>	203 D.
Thomas Melvill Womersley	<i>Greenfield, Mass.</i>	277 L.
William Wallace Woodruff, Jr.	<i>Knoxville, Tenn.</i>	259 L.
Charles Francis Word	<i>Helena, Mont.</i>	204 D.
Richard Hardesty Worthington	<i>Baltimore, Md.</i>	316 W.
William Runk Wright	<i>New York City</i>	248 L.

JUNIOR CLASS

Daniel Crouse Adams	Utica, N. Y.	15 E. D.
George Townsend Adeë	Bartow-on-the-Sound, N. Y.	241 L.
Benjamin Chauncey Allen	Chicago, Ill.	318 W.
Walter Hinds Allen	New York City	123 N.
George Buell Alvord	Torrington, Conn.	134 F.
Frederick Searles Armstrong	Brooklyn, N. Y.	22 College st.
Henry Andrew Baker	Union Hill, N. Y.	187 C.
Edward Chauncey Baldwin	West Cornwall, Conn.	80 N. M.
Roger Sherman Baldwin	New York City	205 D.
Ulysses Simpson Grant Bassett	Philadelphia, Pa.	1010 Chapel st.
George Ezra Batcheller	New York City	149 F.
William Langdon Beadleston	New York City	262 L.
Willoughby Pierce Beam	Buffalo, N. Y.	269 L.
Anson McCook Beard	Poughkeepsie, N. Y.	278 L.
Samuel Fayerweather Beardsley	Bridgeport, Conn.	242 L.
Edward William Beattie, Jr.	Helena, Mont.	179 LYC.
Julian Cone Bingham	Northampton, Mass.	56 S. M.
Walter Stanton Brewster	Chicago, Ill.	168 F.
John Henri Brown	East Granville, Mass.	38 S. M.
George Clark Bryant	Ansonia, Conn.	1010 Chapel st.
Hiram Arthur Bryant	Andover, Mass.	42 Winchester av.
Edward Taylor Buckingham	Bridgeport, Conn.	Bridgeport
Mortimer Norton Buckner	New Orleans, La.	262 L.
Arthur Bumstead	Atlanta, Ga.	93 N. M.
Frederick William Burge	Brooklyn, N. Y.	217 York st.
Ralph Houghton Burns	LeMars, Iowa	123 N.
George Eli Butler	New Haven, Conn.	547 Howard av.
Frank Seiler Butterworth	Washington, D. C.	268 L.
Harold Edgar Buttrick	Brooklyn, N. Y.	67 Whalley av.
Benjamin Stickney Cable	Chicago, Ill.	219 D.
Gustaf Birger Carlson	Higganum, Conn.	67 N. M.
Arthur Fuller Carpenter	Rome, N. Y.	249 L.
William Carson	Chillicothe, O.	154 F.
Walter Frederick Carter	Brooklyn, N. Y.	311 W.
Julian Ingersoll Chamberlain	New York City	303 W.
George Peabody Chandler	Germantown, Pa.	240 D.
Gordon Baldwin Chase	Lyndon, Vt.	62 S. M.
Charles Bolmar Cheyney	Washington, D. C.	84 N. M.
Arthur Boughton Chivers	Buffalo, N. Y.	270 L.
Ulysses Grant Church	Chaplin, Conn.	67 N. M.
Alexander Ray Clark	Cincinnati, O.	239 D.

Clement George Clarke	<i>Manhattan, Kansas</i>	219 York st.
Charles Frederic Clemons	<i>Manchester, Vt.</i>	107 N.
Clarence Edward Clough	<i>Wilmot Flat, N. H.</i>	56 S. M.
Leonard Atwood Comstock	<i>Cooperstown, N. Y.</i>	131 F.
Mortimer Smith Comstock	<i>Bridgeport, Conn.</i>	85 N. M.
Ezra Hoyt Connell	<i>Scranton, Pa.</i>	283 W.
Clifford Semple Cook	<i>Cincinnati, O.</i>	152 F.
Walter Evans Cooke	<i>Paterson, N. J.</i>	258 L.
James Earnest Cooper	<i>New Britain, Conn.</i>	168 F.
William Maltby Copp	<i>New York City</i>	315 W.
Parker Corning	<i>Albany, N. Y.</i>	255 L.
Benjamin Frank Corwin	<i>Baiting Hollow, N. Y.</i>	333 Crown st.
Abraham Beekman Cox, Jr.	<i>Cherry Valley, N. Y.</i>	63 S. M.
Percy Waldron Crane	<i>Montclair, N. J.</i>	44 S. M.
Henry Stoddard Curtis	<i>Olivet, Mich.</i>	387 George st.
George Everett Darling	<i>Port Jefferson, N. Y.</i>	113 N.
Samuel Boyd Darling	<i>Somerville, Mass.</i>	166 F.
Benjamin Davis	<i>Chicago, Ill.</i>	283 Crown st.
Thomas McElrath Debevoise	<i>New York City</i>	271 L.
Frederick Marcy DeForest	<i>Washington, D. C.</i>	169 F.
William Adams Delano	<i>Philadelphia, Pa.</i>	317 W.
William Lester Dench	<i>Bridgeport, Conn.</i>	242 L.
Lindsay Denison	<i>Washington, D. C.</i>	169 F.
Lamont Dominick	<i>New York City</i>	301 W.
James Avery Draper, Jr.	<i>Wilmington, Del.</i>	268 L.
Henry Peck Driggs	<i>Waterbury, Conn.</i>	298 W.
John Joseph Dunn	<i>New Haven, Conn.</i>	921 Grand av.
Benjamin Harrison Dwight	<i>Poughkeepsie, N. Y.</i>	173 F.
Thomas Dyer	<i>Chicago, Ill.</i>	208 D.
William Spencer Eakin	<i>New London, Conn.</i>	317 W.
Stillman Witt Eells	<i>Cleveland, O.</i>	300 W.
Arthur Hibbert Eggleston	<i>New London, Conn.</i>	44 S. M.
John Elliott	<i>Martinsville, N. J.</i>	332 York st.
Elmore Franklin Elmore	<i>Troy, N. Y.</i>	130 F.
Philip Saffery Evans, Jr.	<i>New Haven, Conn.</i>	40 S. M.
Samuel Alexander Everitt	<i>Scarsdale, N. Y.</i>	63 S. M.
Henry Farnam	<i>New Haven, Conn.</i>	166 F.
William Henry Ferris	<i>New Haven, Conn.</i>	87 Eaton st.
Edward Ridley Finch	<i>Plainfield, N. J.</i>	163 F.
Sherman Knevals Foote	<i>New York City</i>	163 F.
William Kingsley Fowler	<i>Brooklyn, N. Y.</i>	255 L.
Frederick Steinman Franklin	<i>Lancaster, Pa.</i>	179 LYC.
Lewis Fox Frissell	<i>New York City</i>	235 D.
Frederic Ruthven Galacar	<i>Hartford, Conn.</i>	176 F.

Charles Sumner Gale	<i>Minneapolis, Minn.</i>	236 Crown st.
Michael Gavin	<i>Memphis, Tenn.</i>	314 W.
George Jay Gibson, Jr.	<i>Peoria, Ill.</i>	242 York st.
Elwin Hayes Gleason	<i>Colorado Springs, Col.</i>	87 N. M.
John Edward Good	<i>Denver, Col.</i>	173 F.
*Silas Hurlbut Goodenough	<i>Winchester, Conn.</i>	
Fred Chapman Goodwin	<i>Biddeford, Me.</i>	68 N. M.
George Wood Govert	<i>Quincy, Ill.</i>	136 Howe st.
George Hinman Gurnee	<i>Nyack, N. Y.</i>	1010 Chapel st.
Clarence Wells Halbert	<i>St. Paul, Minn.</i>	92 N. M.
Hugh Tyler Halbert	<i>St. Paul, Minn.</i>	92 N. M.
Laurens Hamilton	<i>New York City</i>	306 W.
Fred Holcomb Hamlin	<i>East Bloomfield, N. Y.</i>	100 N.
George Wright Hamlin	<i>Canandaigua, N. Y.</i>	107 N.
Charles Newberry Hammond	<i>Sparrow Bush, N. Y.</i>	99 N.
Frank John Harris	<i>New York City</i>	227 Crown st.
Henry Wilson Harris	<i>East Orange, N. J.</i>	309 W.
Francis Burton Harrison	<i>New York City</i>	220 D.
John Heermans	<i>Corning, N. Y.</i>	68 N. M.
Yandell Henderson	<i>Louisville, Ky.</i>	249 L.
Burton Jesse Hendrick	<i>New Haven, Conn.</i>	506 Howard av.
Louis Hewlett	<i>Cold Spring Harbor, N. Y.</i>	263 L.
Shirley Tredway High	<i>Chicago, Ill.</i>	273 L.
Charles Lyon Hill	<i>Greenfield Hill, Conn.</i>	131 F.
Frank Augustus Hinkley	<i>Tonawanda, N. Y.</i>	258 York st.
Everett Winslow Hobart	<i>Cincinnati, O.</i>	246 L.
Louis Halsey Holden	<i>Newark, N. J.</i>	1010 Chapel st.
Joseph Bernard Hone	<i>Rochester, N. Y.</i>	174 F.
James Fisk Hooker	<i>Brattleboro, Vt.</i>	240 D.
Frank Winfield Hubby, Jr.	<i>Cleveland, O.</i>	282 L.
Alfred Burdette Hughes	<i>New Haven, Conn.</i>	309 W.
John Louis Hunt	<i>Hopewell, N. J.</i>	334 York st.
John Llewellyn Hutchins	<i>Andover, Me.</i>	49 S. M.
Charles Cheney Hyde	<i>Chicago, Ill.</i>	292 W.
Henry Neal Hyde	<i>Syracuse, N. Y.</i>	154 F.
Frederic Ives	<i>New Haven, Conn.</i>	478 Orange st.
George Jacobus	<i>Springfield, Mass.</i>	139 F.
Frederick Pitkin James	<i>Lockport, N. Y.</i>	129 F.
Edward Clinton Jones	<i>New Haven, Conn.</i>	84 William st.
Isaac M. Jordan, Jr.	<i>Cincinnati, O.</i>	152 F.
George Dwight Kellogg	<i>St. Louis, Mo.</i>	108 N.
Paul Kennaday	<i>Montclair, N. J.</i>	1044 Chapel st.
Norton Adams Kent	<i>Fordham, N. Y.</i>	1010 Chapel st.
Max Howard Kershow	<i>Philadelphia, Pa.</i>	1018 Chapel st.

* Died November 20, 1893.

William Keyser, Jr.	Baltimore, Md.	15 E. D.
Charles Adams Kimball	Littleton, Mass.	139 F.
Frederick Augustus King	Providence, R. I.	22 College st.
Charles Kingsley, Jr.	Paris, France	238 D.
Louis Williams Ladd	New Haven, Conn.	204 Prospect st.
Franklin Lawrence Lee	New York City	306 W.
Howard Barnes Lee	Louisville, Ky.	141 F.
John Aloysius Lee	New Britain, Conn.	99 N.
Albert David Levi	Erie, Pa.	1010 Chapel st.
David Mosely Levy	Cincinnati, O.	316 Crown st.
George Augustus Lewis	Hudson, N. Y.	96 N. M.
Edwin Carlyle Lobenstine	New York City	48 S. M.
John Lewis Lockwood, Jr.	New York City	143 F.
Thomas Brown Lockwood	Buffalo, N. Y.	318 W.
John McClintock Longacre	Philadelphia, Pa.	240 D.
Harry Frank Loomis	New York City	310 W.
Lloyd Lowndes, Jr.	Cumberland, Md.	233 D.
Richard Tasker Lowndes	Cumberland, Md.	233 D.
David Brainard Lyman, Jr.	La Grange, Ill.	65 N. M.
Edward Branch Lyman	Greenfield, Mass.	111 York st.
William Grant McCann	Philadelphia, Pa.	71 N. M.
John MacGregor, Jr.	Akron, O.	257 L.
Lanier McKee	Washington, D. C.	293 W.
John Dun McKell	Chillicothe, O.	1010 Chapel st.
Guy Richards McLane	New York City	223 D.
Russell Almeron Marks	Sioux City, Iowa	81 N. M.
Roswell Bertram Mason	Chicago, Ill.	219 D.
David Bartine Melick	Gladstone, N. J.	134 F.
Henry Giles Miller, Jr.	Chicago, Ill.	258 L.
David Diamond Mitchell	Wichita, Kansas	151 F.
John Grant Mitchell, Jr.	Columbus, O.	55 S. M.
Phelps Montgomery	Portland, Oregon	235 D.
John King Moore	Hartford, Conn.	281 L.
Thomas Carlisle Moore	Pittsburgh, Pa.	7 College st.
William Arthur Moore	Watertown, N. Y.	37 S. M.
Charles Gould Morris	New Haven, Conn.	230 Prospect st.
Samuel Isaac Motter	St. Joseph, Mo.	227 Crown st.
Robert Cecil Nesbit	New York City	208 D.
Julian St. John Nolan	Chicago, Ill.	265 L.
Joseph Ripley Noyes	Stamford, Conn.	109 N.
Herbert Chester Nutting	Mount Vernon, N. Y.	165 F.
Alfred Townsend Osgood	Rochester, N. Y.	174 F.
Ervin Edward Osgood	New Britain, Conn.	108 N.
Henry Douglas Parmelee	New Haven, Conn.	140 College st.

Henry Ivison Parsons	<i>New York City</i>	214 D.
William Edward Parsons	<i>Akron, O.</i>	183 L.Y.C.
William Knapp Payne	<i>Auburn, N. Y.</i>	238 D.
Rowland Gardiner Paynter	<i>Georgetown, Del.</i>	234 D.
Augustus Stephen Peabody, 2d	<i>Chicago, Ill.</i>	273 L.
Howard Whiting Pease	<i>Thomaston, Conn.</i>	113 N.
Josiah Henry Peck	<i>Bristol, Conn.</i>	76 N. M.
Tracy Peck, Jr.	<i>New Haven, Conn.</i>	124 High st.
Robert Augustine Peet	<i>Brooklyn, N. Y.</i>	142 F.
James Herbert Perrin	<i>Lafayette, Ind.</i>	1010 Chapel st.
George Alexander Phelps	<i>Stamford, Conn.</i>	241 L.
Ziba Bennett Phelps	<i>Wilkes-Barre, Pa.</i>	293 W.
Frederick Holbrook Rawson	<i>Chicago, Ill.</i>	265 L.
Charles Howard Remington	<i>Brooklyn, N. Y.</i>	1044 Chapel st.
William George Reynolds	<i>Watertown, Conn.</i>	93 N. M.
James Harris Richards	<i>Stamford, N. Y.</i>	186 C.
William Martin Richards	<i>New Haven, Conn.</i>	54 S. M.
George Chalmers Richmond	<i>Easthampton, Mass.</i>	97 Olive st.
Lewis Sterrett Sadler	<i>Carlisle, Pa.</i>	1010 Chapel st.
Henry Williams Sage, 2d	<i>Ithaca, N. Y.</i>	149 F.
Nelson Walling Sayles	<i>Millbury, Mass.</i>	263 L.
Harry Sargeant Scarborough	<i>Baltimore, Md.</i>	165 F.
Alfred Egmont Schermerhorn	<i>New York City</i>	155 Elm st.
William Herbert Scoville	<i>Stamford, Conn.</i>	109 N.
Arthur Behn Shepley	<i>St. Louis, Mo.</i>	54 S. M.
Alburn Edward Skinner	<i>Ottawa, Kansas</i>	40 S. M.
William Sloane	<i>New York City</i>	223 D.
Horace Mann Snyder	<i>Vineland, N. J.</i>	100 N.
Eugene Nathan Solomon	<i>New York City</i>	1044 Chapel st.
John Bissell Speer	<i>Pittsburgh, Pa.</i>	298 W.
Benjamin Ives Spock	<i>New Haven, Conn.</i>	38 Lynwood st.
Howard White Starr	<i>New York City</i>	144 F.
John Keim Stauffer	<i>Reading, Pa.</i>	1010 Chapel st.
Ernest Guy Stevens	<i>Wells, Me.</i>	116 N.
Thomas Horace Stevenson	<i>Hartwell, O.</i>	116 N.
Harry Lockman Street	<i>Chicago, Ill.</i>	135 F.
Joseph Rockwell Swan	<i>Stamford, Conn.</i>	55 S. M.
John Gardner Talcott	<i>Talcottville, Conn.</i>	282 L.
John Frelinghuysen Talmage, Jr.	<i>Brooklyn, N. Y.</i>	323 W.
Emerson Gifford Taylor	<i>Hartford, Conn.</i>	308 W.
Harry Knous Taylor	<i>Hartford, Conn.</i>	270 L.
Hartley Wales Thayer	<i>Holbrook, Mass.</i>	97 N.
George Herbert Thomas	<i>Providence, R. I.</i>	257 L.
Hermann Thomas	<i>Chicago, Ill.</i>	144 F.

Ford William Thompson	<i>St. Louis, Mo.</i>	65 N. M.
William DeForest Thomson	<i>New York City</i>	271 L.
Charles Storey Thurston	<i>Whitinsville, Mass.</i>	183 LYC.
George Frederick Truesdell	<i>Washington, D. C.</i>	260 L.
Ralph DeForest Tucker	<i>Monson, Mass.</i>	71 N. M.
Roger Walker Tuttle	<i>New Haven, Conn.</i>	38 S. M.
Fred Sylvester Tyler	<i>Hammonton, N. J.</i>	94 N. M.
Samuel Tyler	<i>Newton Highlands, Mass.</i>	176 F.
Selden Williams Tyler	<i>Tylerville, Conn.</i>	97 N.
Cornelius Vanderbilt, Jr.	<i>New York City</i>	220 D.
Harry Stephen Vorhis	<i>Spencer, N. Y.</i>	400 State st.
George Knight Budd Wade	<i>St. Louis, Mo.</i>	278 L.
Fred Uri Wadhams	<i>New Haven, Conn.</i>	101 Lake pl.
James Colby Walworth	<i>Newton, Mass.</i>	281 L.
Allen Wardwell	<i>New York City</i>	214 D.
Spencer Kellogg Warnick	<i>Amsterdam, N. Y.</i>	245 L.
George Howard Warrington	<i>Cincinnati, O.</i>	246 L.
John Roach Wathen	<i>Louisville, Ky.</i>	1018 Chapel st.
Charles Heald Weller	<i>Watkins, N. Y.</i>	269 L.
Edward Moffat Weyer	<i>St. Louis, Mo.</i>	1018 Chapel st.
Charles Augustus Wheeler	<i>Trumbull, Conn.</i>	37 S. M.
John Walker Wheeler	<i>Bridgeport, Conn.</i>	234 D.
William Mills Wheeler	<i>Stratford, Conn.</i>	151 F.
Roger Widdrington Whinfield	<i>Fond du Lac, Wisc.</i>	1010 Chapel st.
Raymond Sanford White	<i>New York City</i>	205 D.
William Neill Whitelaw	<i>Kidder, Mo.</i>	114 Olive st.
George Parker Wiley	<i>Charleston, Ill.</i>	245 L.
Robert Wilkinson	<i>Poughkeepsie, N. Y.</i>	129 F.
John Reed Williams	<i>Chicago, Ill.</i>	239 D.
Herbert Witherspoon	<i>New Haven, Conn.</i>	135 F.

JUNIORS, 247

SOPHOMORE CLASS

Benjamin Adams	<i>Wethersfield, Conn.</i> 1079 Chapel st.
John Chester Adams	<i>Brookline, Mass.</i> 31 High st.
Marcellin Cote Adams	<i>Pittsburgh, Pa.</i> 310 Elm st.
Eugene Davenport Alexander	<i>New Brighton, N. Y.</i> 261 Crown st.
Philip Ray Allen	<i>Walpole, Mass.</i> 188 C.
Arnon Augustus Alling	<i>New Haven, Conn.</i> 30 Mansfield st.
Samuel Morgan Alvord	<i>Bolton, Conn.</i> 112 N.
Thomas Frothingham Archbald	<i>Scranton, Pa.</i> 216 D.
Wheeler Armstrong, Jr.	<i>Rome, N. Y.</i> 7 Library st.
William Ansel Arnold	<i>Willimantic, Conn.</i> 110 N.
Edgar Stirling Auchincloss	<i>New York City</i> 109 York st.
Leonard Beaumont Bacon	<i>Rochester, N. Y.</i> 159 F.
Philip Horton Bailey	<i>Windsor Locks, Conn.</i> 314 W.
Henry Dunster Baker	<i>Chicago, Ill.</i> 7 E. D.
Owen Calvin Baker	<i>Penfield, N. Y.</i> 82 N. M.
Austin Baldwin, Jr.	<i>New York City</i> 261 Crown st.
Mark Baldwin	<i>Jacksonville, Ill.</i> 110 N.
Kneeland Ball	<i>Buffalo, N. Y.</i> 219 York st.
James Arthur Ballentine	<i>Boise City, Idaho</i> 159 F.
William Mossgrove Beard	<i>Poughkeepsie, N. Y.</i> 155 Elm st.
Arthur Hillier Beaty	<i>Detroit, Mich.</i> 26 Howe st.
Alfred Horatio Belo, Jr.	<i>Dallas, Tex.</i> 166 York st.
George Merrill Bemis	<i>Brookfield, Mass.</i> 82 N. M.
Harry Hobart Benedict	<i>New Haven, Conn.</i> 329 W.
Fred Fox Bennett	<i>Hartford, Conn.</i> 136 College st.
Alexander Garner Bentley	<i>Washington, D. C.</i> 231 York st.
John Milton Berdan	<i>Toledo, O.</i> 1142 Chapel st.
Thomas Joseph Bergin	<i>New Haven, Conn.</i> 14 Daggett st.
John Kirkman Berry	<i>Nashville, Tenn.</i> 111 N.
Frederick Howell Billard	<i>Meriden, Conn.</i> 1044 Chapel st.
Arthur Walker Bingham	<i>West Cornwall, Vt.</i> 1024 Chapel st.
Charles William Birely	<i>Frederick, Md.</i> 107 York st.
Henry Richardson Bond, Jr.	<i>New London, Conn.</i> 290 W.
Charles Henry Boyer	<i>Elkton, Md.</i> 82 Bradley st.
Lewis Ladd Brastow	<i>New Haven, Conn.</i> 128 Wall st.
John Elliot Breckenridge	<i>Palmer, Mass.</i> 126 N.
Daniel Bradley Brinsmade	<i>Washington, Conn.</i> 61 Grove st.
Charles Edward Bristol	<i>Ansonia, Conn.</i> 114 High st.
John Sherrard Brittain, Jr.	<i>St. Joseph, Mo.</i> 1002 Chapel st.
William Hall Brokaw	<i>Newburgh, N. Y.</i> 1010 Chapel st.
Alexander Brown, Jr.	<i>Philadelphia, Pa.</i> 133 Wall st.

Herbert Stanley Brown	<i>Detroit, Mich.</i>	9 Foote st.
William Fuller Brown	<i>Plattsburgh, N. Y.</i>	415 George st.
George Sturges Buck	<i>Buffalo, N. Y.</i>	219 York st.
George Lamb Buist, Jr.	<i>Charleston, S. C.</i>	68 W. D.
George Edward Bulkley	<i>Hartford, Conn.</i>	314 W.
John Ladd Burnham	<i>Springfield, Mass.</i>	55 Prospect st.
Bertram Joseph Cahn	<i>Chicago, Ill.</i>	223 York st.
Herbert Bishop Carey	<i>Norwich, Conn.</i>	41 S. M.
Theodore Carleton	<i>Bradford, Mass.</i>	A.
John Arthur Carley	<i>West Groton, Mass.</i>	251 Crown st.
William Wallace Chace	<i>Hudson, N. Y.</i>	22 College st.
William Woods Chandler	<i>New Haven, Conn.</i>	31 High st.
Harvey Wood Chapman	<i>Bridgeport, Conn.</i>	98 N.
Douglas Charnley	<i>Chicago, Ill.</i>	1010 Chapel st.
Ward Cheney	<i>South Manchester, Conn.</i>	29 High st.
Edward Conner Chickering	<i>Exeter, N. H.</i>	158 York st.
Arthur Smith Chittenden	<i>Binghamton, N. Y.</i>	297 Crown st.
John Henry Churchill Clark	<i>Louisville, Ky.</i>	261 L.
Thomas Benton Clark	<i>Allegheny, Pa.</i>	157 York st.
Walter Haven Clark	<i>Hartford, Conn.</i>	112 N.
Alexander Smith Cochran	<i>New York City</i>	1142 Chapel st.
Charles Coit	<i>Norwich, Conn.</i>	41 S. M.
Christopher Bush Coleman	<i>Springfield, Ill.</i>	29 High st.
Russell Colgate	<i>Orange, N. J.</i>	166 York st.
Charles Collins	<i>Hartford, Conn.</i>	89 N. M.
Edward Day Collins	<i>Barton Landing, Vt.</i>	188 C.
Wendell Phillips Colton	<i>Brooklyn, N. Y.</i>	64 W. D.
Lewis Roberts Conklin	<i>Monroe, N. Y.</i>	310 Elm st.
William Patrick Conly	<i>Buffalo, N. Y.</i>	46 S. M.
Theodore Edwin Connell	<i>Scranton, Pa.</i>	283 W.
Frederick Coonley	<i>Port Richmond, N. Y.</i>	1090 Chapel st.
William Henry Corbitt	<i>New York City</i>	35 College st.
Harry Parsons Cross	<i>Wakefield, R. I.</i>	312 W.
William Redmond Cross	<i>New York City</i>	203 York st.
Alfred Loomis Curtiss	<i>New York City</i>	270 Crown st.
Samuel Edward Damon	<i>Honolulu, H. I.</i>	1079 Chapel st.
Albert Sargent Davis	<i>Cincinnati, O.</i>	177 F.
Edward Lockwood Davis	<i>Cleveland, O.</i>	1136 Chapel st.
Clarence Shepard Day, Jr.	<i>New York City</i>	37 College st.
Sherman Day	<i>New York City</i>	1076 Chapel st.
Estey Fuller Dayton	<i>Torrington, Conn.</i>	20 Whalley av.
Lee Maltbie Dean	<i>Bridgeport, Conn.</i>	Bridgeport
Johnston deForest	<i>New York City</i>	290 W.
Jules Gabriel Henri deSibour	<i>Washington, D. C.</i>	133 Wall st.

Clarence DeWitt	<i>Hartford, Conn.</i>	1076 Chapel st.
Sherwood Owen Dickerman	<i>New Haven, Conn.</i>	15 Lake pl.
Guy Phelps Dodge	<i>New York City</i>	1142 Chapel st.
John Howard Douglass, Jr.	<i>St. Louis, Mo.</i>	1142 Chapel st.
Willard Newell Drown	<i>San Francisco, Cal.</i>	1142 Chapel st.
Edward Lewis Durfee	<i>Palmyra, N. Y.</i>	107 York st.
John Frederick Eagle	<i>Brooklyn, N. Y.</i>	77 N. M.
Jay Glover Eldridge	<i>Penfield, N. Y.</i>	98 N.
Richard Fenwick Ely	<i>New York City</i>	313 W.
Hollon Augustine Farr	<i>Athol, Mass.</i>	1090 Chapel st.
William Perez Field	<i>Geneva, N. Y.</i>	199 York st.
Charles Louis Fincke, Jr.	<i>Brooklyn, N. Y.</i>	65 W. D.
Harry Johnson Fisher	<i>New York City</i>	77 N. M.
Carroll Hamilton Fitzhugh	<i>Allegheny, Pa.</i>	90 High st.
Michael Flaherty, Jr.	<i>Birmingham, Conn.</i>	339 George st.
Arthur Ellsworth Foote	<i>New Haven, Conn.</i>	19 Howe st.
Fred Albert Forbes	<i>Chicago, Ill.</i>	7 E. D.
Walter Buhl Ford	<i>Detroit, Mich.</i>	42 Trumbull st.
Clarence Vernon Fowler	<i>Newburgh, N. Y.</i>	159 York st.
James Frank	<i>Ogdensburg, N. Y.</i>	159 York st.
Clement Austin Fuller	<i>New Haven, Conn.</i>	145 Olive st.
Frederick William Gaines	<i>Cleveland, O.</i>	1136 Chapel st.
John Marshall Gaines	<i>Albuquerque, N. M.</i>	25 High st.
William Standish Gaylord	<i>Norwich, Conn.</i>	1010 Chapel st.
Benjamin Thorn Gilbert	<i>Clayville, N. Y.</i>	251 L.
Emile Godchaux	<i>New Orleans, La.</i>	1079 Chapel st.
Richard Johnston Goodman	<i>Hartford, Conn.</i>	47 S. M.
Theodore Meech Gowans	<i>Buffalo, N. Y.</i>	1079 Chapel st.
Asahel Henry Grant	<i>Charleston, S. C.</i>	192 C.
George Zabriskie Gray	<i>New York City</i>	203 York st.
Harris Ray Greene	<i>New York City</i>	163 York st.
Frank Libby Griffith	<i>Indianapolis, Ind.</i>	236 Crown st.
Maitland Griggs	<i>Hartford, Conn.</i>	45 S. M.
Richard Cameron Haldeman	<i>Harrisburg, Pa.</i>	253 L.
Elbert Bacon Hamlin	<i>Washington, D. C.</i>	22 College st.
Paul Delano Hamlin	<i>Smethport, Pa.</i>	236 Crown st.
George Bates Hatch	<i>Cincinnati, O.</i>	1010 Chapel st.
Franke Stuart Havens	<i>Hartford, Conn.</i>	47 S. M.
Emory Hawes	<i>New York City</i>	199 York st.
Herbert Edwin Hawkes	<i>Templeton, Mass.</i>	139 Elm st.
Carlos Clayton Heard	<i>Biddeford, Me.</i>	336 George st.
William Wilson Heaton	<i>New York City</i>	129 F.
Gilbert Lawrence Hedges	<i>Oregon City, Oregon</i>	39 S. M.
Edward Charles Heidrich, Jr.	<i>Peoria, Ill.</i>	1010 Chapel st.

William Leonard Helfenstein	<i>Shamokin, Pa.</i>	1044 Chapel st.
William Lester Henry	<i>Plattsburgh, N. Y.</i>	1366 Chapel st.
William Milton Hess	<i>Philadelphia, Pa.</i>	1090 Chapel st.
Fritz Wilhelm Hoeninghaus, Jr.	<i>New York City</i>	199 York st.
George Clay Hollister	<i>Grand Rapids, Mich.</i>	1076 Chapel st.
John Chamberlain Hollister	<i>Grand Rapids, Mich.</i>	1076 Chapel st.
Frank Thomas Hooker	<i>Ontario Center, N. Y.</i>	79 N. M.
Lester Page Hoole	<i>Brooklyn, N. Y.</i>	310 Elm st.
Charles Vernon Hopkins	<i>Catskill-on-Hudson, N. Y.</i>	1076 Chapel st.
James Barnett Horton	<i>Albany, N. Y.</i>	333 George st.
Walter Stiles Hoyt	<i>Stamford, Conn.</i>	155 Elm st.
Russell Hulbert	<i>Middletown, Conn.</i>	139 Elm st.
Alexander Everett Hunt, Jr.	<i>Scranton, Pa.</i>	216 D.
James Abbott Hutchinson	<i>Lynn, Mass.</i>	277 Crown st.
Gerard Merrick Ives	<i>Rome, Italy</i>	1076 Chapel st.
Frederick Stephen Jackson	<i>Waterbury, Conn.</i>	263 Crown st.
Frank Mason Jeffrey	<i>Torrington, Conn.</i>	340 Elm st.
Frederic Blair Johnson	<i>Unionville, Conn.</i>	82 Whalley av.
Henry Selden Johnston	<i>New York City</i>	1150 Chapel st.
Albert Corey Jones	<i>New Haven, Conn.</i>	84 William st.
Louis Cleveland Jones	<i>East Durham, N. Y.</i>	90 N. M.
Warren Southard Jordan	<i>Peekskill, N. Y.</i>	1079 Chapel st.
Albert Galloway Keller	<i>Milford, Conn.</i>	347 Crown st.
William Crissey Kellogg	<i>New Canaan, Conn.</i>	107 York st.
Alfred Harris Kelly	<i>Louisville, Ky.</i>	314 Crown st.
Robert Kelly, Jr.	<i>West Superior, Wisc.</i>	89 N. M.
Tom Sidney Kingman	<i>Orange, N. J.</i>	1044 Chapel st.
Troy Sylvanus Kinney	<i>Chicago, Ill.</i>	232 D.
Henry Spies Kip	<i>New York City</i>	248 York st.
James Hoyt Knapp	<i>South Norwalk, Conn.</i>	215 D.
Edgar Conrad Lackland, Jr.	<i>St. Louis, Mo.</i>	1076 Chapel st.
Leonard Bronk Lampman	<i>Newark, N. J.</i>	1010 Chapel st.
Frederick Clare Lee	<i>Port of Spain, Trinidad</i>	270 Crown st.
Charles Bernard Lenahan	<i>Wilkes-Barre, Pa.</i>	339 George st.
Herbert Richard Limburger	<i>New York City</i>	233 York st.
Percival Clement Liscomb	<i>Albany, N. Y.</i>	192 York st.
Ralph Waldo Lobenstine	<i>New York City</i>	48 S. M.
Horace Arthur Loomis	<i>Brooklyn, N. Y.</i>	65 W. D.
Christopher Kiersted Loughran	<i>Kingston, N. Y.</i>	145 College st.
Harry Borden Lovell	<i>Plainfield, N. J.</i>	283 Crown st.
Robert Lusk	<i>Nashville, Tenn.</i>	111 N.
Henry Edwin McDermott	<i>New Haven, Conn.</i>	268 Orchard st.
William Adams McFadden	<i>Cincinnati, O.</i>	1044 Chapel st.
McKee Dunn McKee	<i>Washington, D. C.</i>	155 Elm st.

Cyrus Fay Mackey	<i>Franklin, Pa.</i>	170 York st.
George Xavier McLanahan	<i>Washington, D. C.</i>	329 W.
George Sutherland McLaren	<i>Thompsonville, Conn.</i>	79 N. M.
Boyd McLean	<i>Jersey City, N. J.</i>	1090 Chapel st.
Neil Bernard Mallon	<i>Cincinnati, O.</i>	22 College st.
Frederick Whitney Mathews	<i>Waldoboro, Me.</i>	91 N. M.
Harry Willard Mathews	<i>New Haven, Conn.</i>	732 Orange st.
Frederic Huntington Mathison	<i>New Haven, Conn.</i>	2 Audubon st.
Eugene Isaac Meyer	<i>New York City</i>	26 Lynwood st.
William Southworth Miller	<i>Chicago, Ill.</i>	155 Elm st.
Joseph Oudinot Moré	<i>Easthampton, Mass.</i>	66 N. M.
William Conger Morgan	<i>Albany, N. Y.</i>	384 Crown st.
Charles Southerton Morris	<i>New Haven, Conn.</i>	408 Crown st.
Norris Havemeyer Mundy	<i>Chicago, Ill.</i>	1079 Chapel st.
James Brown Neale	<i>Kittanning, Pa.</i>	1076 Chapel st.
George Henry Nettleton	<i>Boston, Mass.</i>	161 F.
Theodore Woods Noon	<i>Shelburne Falls, Mass.</i>	191 C.
Louis Curtis Oakley	<i>Owego, N. Y.</i>	181 L.
Edwin Sidney Oviatt	<i>New Haven, Conn.</i>	24 Howe st.
Warren Prescott Palmer	<i>Thompsonville, Conn.</i>	95 N. M.
Alfred Day Pardee	<i>Philadelphia, Pa.</i>	1076 Chapel st.
Walter Palmer Paret	<i>South Orange, N. J.</i>	109 York st.
Charles Edwards Park	<i>Birmingham, Conn.</i>	163 York st.
Frank Miner Patterson	<i>Albany, N. Y.</i>	100 N.
William Lee Patterson	<i>New Castle, Pa.</i>	297 Crown st.
Thomas Barbour Paxton, Jr.	<i>Cincinnati, O.</i>	1002 Chapel st.
Howard Seymour Peck	<i>Bristol, Conn.</i>	76 N. M.
Philip Curran Peck	<i>Hudson, N. Y.</i>	139 Elm st.
Charles Alfred Pelton	<i>Clinton, Conn.</i>	94 N. M.
Henry Augustus Perkins	<i>Hartford, Conn.</i>	313 W.
Louis Hopkins Porter	<i>Stamford, Conn.</i>	205 Crown st.
Addison Strong Pratt	<i>Fairport, N. Y.</i>	78 N. M.
Walter Franklin Prince	<i>Detroit, Me.</i>	39 William st.
Morris Houghton Reed	<i>St. Joseph, Mo.</i>	163 York st.
Thomas Edward Reynolds	<i>Meriden, Conn.</i>	339 George st.
Eugene McJimsey Richmond	<i>Brooklyn, N. Y.</i>	115 W. D.
Fred Oscar Robbins	<i>Greenville, N. H.</i>	78 N. M.
Wolcott Phelps Robbins	<i>New York City</i>	1076 Chapel st.
Henry Martyn Robert, Jr.	<i>Fort Wadsworth, N. Y.</i>	314 Crown st.
Edwin Loomis Robinson	<i>Lebanon, Conn.</i>	57 Prospect st.
James Dwight Rockwell	<i>Washington, D. C.</i>	22 College st.
Robertson Tyler Root	<i>Greenwich, Conn.</i>	1150 Chapel st.
Robert Lawson Ross	<i>Newburgh, N. Y.</i>	378 Crown st.
Clinton Joseph Rumrill	<i>Royalton, Vt.</i>	1241 Chapel st.

Sylvester B. Sadler	<i>Carlisle, Pa.</i>	1010 Chapel st.
Andrew Gregg Curtin Sage	<i>Ithaca, N. Y.</i>	1076 Chapel st.
James Denison Sawyer	<i>Buffalo, N. Y.</i>	1024 Chapel st.
George Hayward Schuyler	<i>Pana, Ill.</i>	73 N. M.
Rudolph Schwill	<i>Cincinnati, O.</i>	31 High st.
Alexander Scott	<i>Whitinsville, Mass.</i>	126 N.
William Langdon Scoville	<i>Montpelier, Vt.</i>	184 Wooster st.
Hewlett Scudder, Jr.	<i>New York City</i>	1142 Chapel st.
Herman Dingwell Sears	<i>Northampton, Mass.</i>	73 N. M.
Lewis Pendleton Sheldon	<i>Rutland, Vt.</i>	261 L.
Charles Phineas Sherman	<i>Springfield, Mass.</i>	114 Greene st.
Murray Marvin Shoemaker	<i>Cincinnati, O.</i>	248 York st.
Edward Dorland Smith	<i>Peru, N. Y.</i>	66 N. M.
George Arthur Smith	<i>East Northfield, Mass.</i>	39 S. M.
Nathaniel Waite Smith	<i>Bellows Falls, Vt.</i>	128 Wall st.
Robert Henry Burton Smith	<i>Sioux City, Iowa</i>	20 Whalley av.
William Dickinson Griswold Smith	<i>St. Louis, Mo.</i>	54 Wall st.
Winthrop Davenport Smith	<i>New York City,</i>	236 D.
Harry Alexis Spalding	<i>New Haven, Conn.</i>	9 High st.
Charles Flagg Spellman	<i>Springfield, Mass.</i>	22 College st.
Joseph Marius Spinello	<i>New Haven, Conn.</i>	124 East Pearl st.
Solomon Ephraim Spooht	<i>Odessa, Russia</i>	163 York st.
Albert Jefferson Squires	<i>Batavia, N. Y.</i>	46 S. M.
Edmund Gerald Stalter	<i>Paterson, N. J.</i>	82 Whalley av.
William Judd Starkweather, Jr.	<i>Cleveland, O.</i>	217 York st.
Douglas Stewart	<i>Allegheny, Pa.</i>	90 High st.
Anson Phelps Stokes, Jr.	<i>New York City</i>	133 Wall st.
Herbert Gillette Strong	<i>Winsted, Conn.</i>	158 F.
Thomas Shepard Strong, Jr.	<i>New York City</i>	1142 Chapel st.
David Stuart	<i>Brooklyn, N. Y.</i>	120 High st.
Lewis Aaron Sulcov	<i>Lancaster, Pa.</i>	163 York st.
Eliot Sumner	<i>New Haven, Conn.</i>	140 Edwards st.
James Bogert Tailer	<i>New York City</i>	1076 Chapel st.
Huntington Taylor	<i>Poughkeepsie, N. Y.</i>	312 W.
Arthur Ripley Thompson	<i>Hartford, Conn.</i>	128 Wall st.
Frederick Maurice Thompson	<i>Philadelphia, Pa.</i>	1142 Chapel st.
Samuel Thorne, Jr.	<i>New York City</i>	146 F.
Samuel Brinckerhoff Thorne	<i>New York City</i>	146 F.
Asa Currier Tilton	<i>Raymond, N. H.</i>	1150 Chapel st.
Albert Eugene VonTobel	<i>Torrington, Conn.</i>	340 Elm st.
Herbert Ladd Towle	<i>Dobbs Ferry, N. Y.</i>	74 W. D.
Thomas Andrew Tracy	<i>Bristol, Conn.</i>	189 C.
Ralph Bishop Treadway	<i>Sioux City, Iowa</i>	81 N. M.
Edward Livingston Trudeau, Jr.	<i>Saranac Lake, N. Y.</i>	133 Wall st.

Henry Adams Truslow	Summit, N. J.	1079 Chapel st.
Howland Twombly	Newton, Mass.	68 W. D.
Dudley Landon Vaill	West Winsted, Conn.	158 F.
Michael Murray VanBeuren	New York City	145 F.
Thomas Gaylord Vennum	Watseka, Ill.	95 N. M.
Wesley Grove Vincent	Cottage City, Mass.	45 S. M.
Frank Edward Wade	Springfield, Mo.	56 W. D.
William Henderson Wadhams	Wadhams' Mills, N. Y.	161 F.
Nathaniel Waldron Wallis	East Orange, N. J.	253 L.
Arthur Gillender Walter	New Haven, Conn.	189 C.
Chauncey Wetmore Wells	Middletown, Conn.	7 Library st.
Thomas B. Wells	Minneapolis, Minn.	74 Wall st.
George Childs Weston	Honesdale, Pa.	1150 Chapel st.
Frederick Edward Weyerhaeuser	St. Paul, Minn.	215 D.
Robert Edwin Whalen	Albany, N. Y.	333 George st.
Morris Mortimer Whitaker	Brooklyn, N. Y.	1179 Chapel st.
Burton Arthur White	Brockport, N. Y.	177 F.
Joseph Wallace Wickenden	Buffalo, N. Y.	45 Whalley av.
Norman Williams, Jr.	Chicago, Ill.	155 Elm st.
Norman Alton Williams	Utica, N. Y.	251 L.
Walter Fargo Wood	Orange, N. J.	1076 Chapel st.
William Sayre Woodhull	Orange, N. J.	163 York st.
Robert Jeremiah Woodruff	Orange, Conn.	84 N. M.
Lewis Rogers Yeaman	Louisville, Ky.	1150 Chapel st.
Ezra Hallock Young	Orient, N. Y.	131 High st.

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FRESHMAN CLASS

Charles Stanton Adee	<i>Bartow-on-the-Sound, N. Y.</i>	114 High st.
Joseph William Alport	<i>Buffalo, N. Y.</i>	22 High st.
Alfred Leighton Andrews	<i>Meriden, Conn.</i>	76 Howe st.
William Whiting Andrews, Jr.	<i>Cleveland, O.</i>	166 York st.
Leo Arnstein	<i>New York City</i>	26 Lynwood st.
Herbert Bassett Augur	<i>Hartford, Conn.</i>	66 Whalley av.
Wylie MacLean Ayres	<i>Cincinnati, O.</i>	37 College st.
Samuel Denison Babcock, Jr.	<i>New York City</i>	250 York st.
Philip Horton Bailey	<i>Windsor Locks, Conn.</i>	A.
William Dwight Baldwin	<i>Haiku, Maui, H. I.</i>	250 York st.
William Edward Balmer	<i>Whitinsville, Mass.</i>	62 s. m.
Ralph Andrews Barker	<i>Calais, Me.</i>	64 Lake pl.
Everett Larkin Barnard	<i>New York City</i>	120 College st.
Clinton DeVer Barnes	<i>Canaan, Conn.</i>	1016 Chapel st.
Theodore Moore Barnes, Jr.	<i>New York City</i>	252 York st.
Thomas George Barnes	<i>Sing Sing, N. Y.</i>	1010 Chapel st.
John Howard Bartlett	<i>Barton Landing, Vt.</i>	387 George st.
Lyman Metcalfe Bass	<i>Denver, Col.</i>	159 Elm st.
Lewis Franklin Battey	<i>Putnam, Conn.</i>	22 Whalley av.
William DeVerne Beach	<i>Bridgeport, Conn.</i>	9 Library st.
Arthur Wellington Bell	<i>Allegheny City, Pa.</i>	137 Wall st.
Arthur Harry Bissell	<i>Montclair, N. J.</i>	316 Crown st.
Shelton Bissell	<i>Montclair, N. J.</i>	316 Crown st.
George Whitefield Blood	<i>Newburyport, Mass.</i>	200 York st.
Francis Boardman	<i>Nutley, N. J.</i>	219 York st.
Francke Huntington Bosworth, Jr.	<i>New York City</i>	168 York st.
Spotswood Dandridge Bowers	<i>New York City</i>	63 Grove st.
McKinley Boyle	<i>Louisville, Ky.</i>	159 Elm st.
Edward Sumner Brackett	<i>Hartford, Conn.</i>	17 Lake pl.
William Lodge Brett	<i>Matteawan, N. Y.</i>	69 Lake pl.
Robert Stanton Brewster	<i>New York City</i>	159 Elm st.
Henry Harrison Briggs	<i>Flag Pond, Tenn.</i>	14 Whalley av.
Harcourt Brigham	<i>Savannah, Ga.</i>	311 York st.
George Clymer Brooke	<i>Birdsboro, Pa.</i>	159 Elm st.
Frank Brookfield	<i>New York City</i>	168 York st.
James Hanford Brookfield	<i>New York City</i>	145 F.
John Mason Brown	<i>Louisville, Ky.</i>	68 W. D.
Thatcher Magoun Brown	<i>New York City</i>	64 High st.
Abraham Royer Brubacher	<i>Shaefferstown, Pa.</i>	53 Trumbull st.
Frederic Merwin Burgess	<i>New Haven, Conn.</i>	226 Whalley av.
Robert Wallace Burnet, Jr.	<i>Cincinnati, O.</i>	373 Crown st.

Charles William Burnett	<i>Cincinnati, O.</i>	1079 Chapel st.
William James Calyer	<i>Cronomer Valley, N. Y.</i>	378 Crown st.
Henry Godwin Campbell, Jr.	<i>Paterson, N. J.</i>	248 York st.
Harry Wardell Carey	<i>Stamford, Conn.</i>	295 York st.
Robert Willets Carle	<i>New York City</i>	242 York st.
Richard High Carleton	<i>Chicago, Ill.</i>	250 York st.
Charles Chadwick	<i>Brooklyn, N. Y.</i>	263 Orange st.
Charles Meigs Charnley, Jr.	<i>Chicago, Ill.</i>	313 York st.
Richard Schieffelin Chisolm	<i>New York City</i>	242 York st.
Willard Church	<i>New York City</i>	226 York st.
William Churchill	<i>New Britain, Conn.</i>	153 F.
Charles Brainard Clark	<i>Boston, Mass.</i>	161 York st.
Charles Upson Clark	<i>Brooklyn, N. Y.</i>	120 College st.
William Francis Clark	<i>Meriden, Conn.</i>	57 Lake pl.
Thomas Ludlow Clarke	<i>New Orleans, La.</i>	64 High st.
Frank Macmillan Cobb	<i>Cleveland, O.</i>	83 Grove st.
Henry Sloane Coffin	<i>New York City</i>	248 York st.
Russell Ervin Colcord	<i>Peabody, Mass.</i>	111 York st.
William Henry Comley, Jr.	<i>Bridgeport, Conn.</i>	157 York st.
Edward Hulett Comstock	<i>Rome, N. Y.</i>	9 Library st.
Theodore Mathew Connor	<i>Florence, Mass.</i>	819 Chapel st.
James Cogswell Converse	<i>New York City</i>	205 Crown st.
Charles Montague Cooke, Jr.	<i>Honolulu, H. I.</i>	223 York st.
William Gardner Cooke	<i>Oakland, Cal.</i>	250 York st.
Asahel Walker Cooper	<i>New Orleans, La.</i>	82 Wall st.
William Thorne Cowdrey	<i>New Rochelle, N. Y.</i>	314 Crown st.
Rowland Cox, Jr.	<i>Plainfield, N. J.</i>	1024 Chapel st.
Franklin Muzzy Crosby	<i>Minneapolis, Minn.</i>	1204 Chapel st.
Melville Goss Curtis	<i>Cincinnati, O.</i>	150 College st.
William Darrach	<i>Germantown, Pa.</i>	121 York st.
DeWitt Davis, Jr.	<i>Milwaukee, Wisc.</i>	261 Crown st.
Joseph Lewis Davis	<i>Helena, Mont.</i>	7 College st.
Wirt Davis	<i>Dallas, Tex.</i>	373 Crown st.
George Parmly Day	<i>New York City</i>	159 Elm st.
Charles Brandebury DeCamp	<i>Cincinnati, O.</i>	255 Crown st.
Henry Lockwood deForest	<i>New York City</i>	254 Crown st.
Frank Courtenay Dodd	<i>New York City</i>	378 Crown st.
Charles Hamilton Doud, Jr.	<i>Scranton, Pa.</i>	155 Elm st.
Michael Thomas Downes	<i>Wallingford, Conn.</i>	Wallingford
George Silas Drake, Jr.	<i>St. Louis, Mo.</i>	7 Library st.
Arthur Joy Draper	<i>Washington, D. C.</i>	250 York st.
Benjamin Franklin Eby	<i>Lancaster, Pa.</i>	40 Lynwood st.
Frederick Leverett Emmons	<i>East Hartland, Conn.</i>	17 Lake pl.
Charles Sumner Evans	<i>Pittsburgh, Pa.</i>	37 Lynwood st.

Arthur Woolsey Ewell	<i>Washington, D. C.</i> 2 University pl.
John Louis Ewell	<i>Washington, D. C.</i> 2 University pl.
Martin Bell Faris	<i>Brooklyn, N. Y.</i> 233 York st.
George Bronson Farnam	<i>New Haven, Conn.</i> 37 Hillhouse av.
Augustine William Ferrin, Jr.	<i>Salamanca, N. Y.</i> 85 Lake pl.
George Jackson Ferry, Jr.	<i>Mendham, N. J.</i> 1010 Chapel st.
Clarence Mann Fincke	<i>Brooklyn, N. Y.</i> 231 York st.
Henry Mark Fisher	<i>New Haven, Conn.</i> 84 Lyon st.
Lucius George Fisher, Jr.	<i>Chicago, Ill.</i> 22 College st.
Thomas Francis Fitzgerald	<i>Hopkinton, Mass.</i> 109 Temple st.
Jacob LaFayette Frey, Jr.	<i>Lancaster, Pa.</i> 40 Lynwood st.
Andrew Chesley Furbush	<i>Machias, Me.</i> 70 Howe st.
Oliver Wolcott Gaines	<i>Meriden, Conn.</i> 25 High st.
Elisha Ely Garrison	<i>Colorado Springs, Col.</i> 147 College st.
John David Garth	<i>Hannibal, Mo.</i> 315 Crown st.
Frank Patrick Garvan	<i>East Hartford, Conn.</i> 31 High st.
Sumner Kemble Gerard	<i>New York City</i> 226 York st.
James Reiser Gerhard	<i>Douglassville, Pa.</i> 231 York st.
Murillo Harrison Gillett	<i>New York City</i> 170 York st.
Charles Howard Gillette	<i>Hartford, Conn.</i> 1119 Chapel st.
Curtenius Gillette	<i>New York City</i> 250 York st.
Robert Capen Gilmore	<i>Rutland, Vt.</i> 1204 Chapel st.
Charles Frederick Gloth	<i>Erie, Pa.</i> 404 Crown st.
Walter Lippincott Goodwin	<i>New York City</i> 242 York st.
Edward Eugene Gregory	<i>New York City</i> 1076 Chapel st.
Robert De Lancey Hamilton	<i>Newburyport, Mass.</i> 34 Hillhouse av.
Edward Stephen Harkness	<i>New York City</i> 159 Elm st.
William Augustus Hart	<i>New Haven, Conn.</i> 19 Warren st.
George Sewell Haydock	<i>Cincinnati, O.</i> 373 Crown st.
Roy Evans Head	<i>Louisville, Ky.</i> 261 Crown st.
Edgar Laing Heermance	<i>New Haven, Conn.</i> 83 Wall st.
Charles Edwin Heffelfinger	<i>Minneapolis, Minn.</i> 363 Elm st.
Charles Reed Hemenway	<i>Manchester, Vt.</i> 231 York st.
William Henry Harrison Hewitt	<i>New Haven, Conn.</i> 65 Dixwell av.
Ebenezer Hill, Jr.	<i>Danbury, Conn.</i> 316 Crown st.
Rurey Frank Hill	<i>Kittanning, Pa.</i> 109 Temple st.
John Ralph Hilton	<i>Newburgh, N. Y.</i> 22 Lynwood st.
Benjamin Barrett Hinckley	<i>Northampton, Mass.</i> 116 High st.
Robert Stanley Hincks	<i>Bridgeport, Conn.</i> 1161 Chapel st.
Louis Hinkey	<i>Tonawanda, N. Y.</i> 1157 Chapel st.
Phillip Hinkle	<i>Cincinnati, O.</i> 255 Crown st.
Frank Gilbert Hinsdale	<i>Pittsfield, Mass.</i> 223 York st.
Allen Hall Hitchcock	<i>Meriden, Conn.</i> Meriden
Harry Leslie Morris Hoffman	<i>Cressona, Pa.</i> 25 Lynwood st.

Theodore Charles Hoffman	<i>Rockville, Conn.</i>	551 Orange st.
Harold Goodwin Holcombe	<i>Hartford, Conn.</i>	242 York st.
Gerry Rounds Holden	<i>Portland, Me.</i>	363 Elm st.
Robert Willard Holden	<i>Newark, N. J.</i>	1010 Chapel st.
Lorenzo William Housel	<i>Nichols, N. Y.</i>	16 Eld st.
John Fell Howe	<i>Philadelphia, Pa.</i>	135 College st.
Murray Shipley Howland	<i>Wilmington, Del.</i>	215 York st.
Benjamin Hubbell, Jr.	<i>Derby, Conn.</i>	381 Crown st.
William Stone Hubbell, Jr.	<i>Buffalo, N. Y.</i>	226 York st.
Gerald Hughes	<i>Denver, Col.</i>	118 College st.
Edward Hicks Hume	<i>Bombay, India</i>	24 Home pl.
Chester Jay Hunt	<i>Jersey City, N. J.</i>	263 Orange st.
Louis Charles Ilfeld	<i>Las Vegas, N. M.</i>	123 York st.
William Julius Edward Jente	<i>New Haven, Conn.</i>	97 Bristol st.
Sherman Foster Johnson	<i>Meriden, Conn.</i>	219 York st.
Albert Francis Judd, Jr.	<i>Honolulu, H. I.</i>	364 George st.
James Robert Judd	<i>Honolulu, H. I.</i>	364 George st.
Max Kasmirsky	<i>Dayton, O.</i>	90 Park st.
Burt Bronson Kauffman	<i>St. Louis, Mo.</i>	159 York st.
Harold Meredith Kauffman	<i>St. Louis, Mo.</i>	159 York st.
Harry Mayham Keator	<i>Roxbury, N. Y.</i>	231 York st.
Wendell Prime Keeler	<i>Washingtonville, N. Y.</i>	373 Crown st.
Charles Prentice Kellogg	<i>New York City</i>	373 Crown st.
Edwin Ruthven Kelsey, Jr.	<i>Short Beach, Conn.</i>	165 York st.
Albert Emmett Kent, 2d	<i>New York City</i>	1010 Chapel st.
Albert Boardman Kerr	<i>Washington, D. C.</i>	1157 Chapel st.
Frank Ray Kimbley	<i>Owensboro, Ky.</i>	68 Whalley av.
Samuel King, Jr.	<i>West Salamanca, N. Y.</i>	85 Lake pl.
Cornelius Porter Kitchel	<i>East Liverpool, O.</i>	133 College st.
Henry Timothy Kneeland, Jr.	<i>Brooklyn, N. Y.</i>	121 York st.
Herman Davis Kountze	<i>Omaha, Nebr.</i>	113 Wall st.
Luther Latham Kountze	<i>Omaha, Nebr.</i>	113 Wall st.
Henry George Lapham	<i>New York City</i>	252 York st.
Walter Jerome Lapham	<i>Glens Falls, N. Y.</i>	363 Elm st.
Edward Lasker	<i>Galveston, Tex.</i>	19 Lake pl.
Frederick Palmer Latimer	<i>Montville, Conn.</i>	91 Park st.
Arthur William Lawrence	<i>New York City</i>	205 Crown st.
Henry Ledyard	<i>Detroit, Mich.</i>	250 York st.
Irving Prentice Leete	<i>Leete's Island, Conn.</i>	2 Audubon st.
Frederick Reimold Lehlbach	<i>Newark, N. J.</i>	1119 Chapel st.
Dwight Milton Lewis	<i>New Haven, Conn.</i>	438 George st.
James Hoyt Lewis	<i>Hudson, N. Y.</i>	96 N. M.
Goodloe Lindsley	<i>Nashville, Tenn.</i>	159 York st.
James Israel Lineaweaver	<i>New Haven, Conn.</i>	121 Whitney av.

William Gilman Low, Jr.	<i>Brooklyn, N. Y.</i>	135 College st.
Frederick Bliss Luquiens	<i>New Haven, Conn.</i>	209 Bishop st.
Francis Martin Lynch	<i>Olyphant, Pa.</i>	58 Dixwell av.
Thomas Perkins MacBride	<i>Grand Rapids, Mich.</i>	281 Crown st.
George Bliss McCallum	<i>Northampton, Mass.</i>	36 Lynwood st.
Chester McVey McCance	<i>Pittsburgh, Pa.</i>	99 Wall st.
Frank McCoy, Jr.	<i>New York City</i>	215 Crown st.
Theodore Dwight McDonald	<i>New York City</i>	1173 Chapel st.
George Stewart McFarlan	<i>Amsterdam, N. Y.</i>	236 Crown st.
LeRoy McKim	<i>Navesink, N. J.</i>	313 York st.
John Robert McNeille	<i>Bridgeport, Conn.</i>	9 Library st.
Roy McWilliams	<i>Chicago, Ill.</i>	7 Library st.
Knox Maddox	<i>San Francisco, Cal.</i>	22 College st.
Walter Dunham Makepeace	<i>Springfield, Mass.</i>	55 Prospect st.
Arthur Robertson Manice	<i>New York City</i>	1184 Chapel st.
George Tracy Marsh	<i>Lansingburgh, N. Y.</i>	1157 Chapel st.
Huntington Mason	<i>Chicago, Ill.</i>	120 High st.
Nathaniel Robert Mason	<i>North Conway, N. H.</i>	91 Park st.
David Irving Mead	<i>Brooklyn, N. Y.</i>	121 York st.
Larkin Goldsmith Mead	<i>New York City</i>	254 Crown st.
Walter Bertrand Merriam	<i>New York City</i>	250 York st.
Newton Alexander Merritt, Jr.	<i>Newark, N. J.</i>	36 Lynwood st.
John Vincent Miller	<i>Akron, O.</i>	159 Elm st.
Robert Hume Miller	<i>New Haven, Conn.</i>	133 Wall st.
Theodore Westwood Miller	<i>Akron, O.</i>	159 Elm st.
Robert Doremus Mills	<i>New York City</i>	137 Wall st.
Charles Hooker Mitchell	<i>New York City</i>	1161 Chapel st.
Theodore Monell	<i>New York City</i>	1119 Chapel st.
Ernest Conkling Moore	<i>Syracuse, N. Y.</i>	250 York st.
James Otis Moore	<i>Geneseo, N. Y.</i>	421 George st.
William Edgar Fleming Moore	<i>New York City</i>	107 York st.
Charles Frederick Mosle	<i>New York City</i>	226 Crown st.
Robert Lewis Munger	<i>Ansonia, Conn.</i>	1010 Chapel st.
• Fred Towsley Murphy	<i>Junction City, Kan.</i>	1204 Chapel st.
John Killam Murphy	<i>New Haven, Conn.</i>	144 Wooster st.
Charles Frederick Neergaard	<i>Brooklyn, N. Y.</i>	61 Grove st.
Burhans Newcombe	<i>New York City</i>	24 High st.
Edward Payson Newton	<i>Norwich, N. Y.</i>	254 Crown st.
Harry Edgar Nolan	<i>Chicago, Ill.</i>	120 High st.
Jesse Watson Olney	<i>Catskill, N. Y.</i>	26 High st.
Frank Osborn	<i>Brooklyn, N. Y.</i>	1044 Chapel st.
William Henry Owen, Jr.	<i>New York City</i>	373 Crown st.
Harry Williams Paddock	<i>Springfield, Ill.</i>	314 Crown st.
Hervy Coke Parke, Jr.	<i>Detroit, Mich.</i>	170 York st.

Julius Leonard Parke	<i>Cincinnati, O.</i>	1079 Chapel st.
George Lawrence Parker	<i>Louisville, Ky.</i>	7 Library st.
Grenville Parker	<i>New York City</i>	250 Crown st.
Stewart Patterson	<i>Chicago, Ill.</i>	250 York st.
Charles Williams Penrose	<i>Norfolk, Va.</i>	44 Elm st.
George Barthold Pfingst	<i>Louisville, Ky.</i>	261 Crown st.
James Farnsworth Pierce, Jr.	<i>Brooklyn, N. Y.</i>	264 York st.
Amos Richards Eno Pinchot	<i>New York City</i>	270 Crown st.
Bernard Wesley Pond	<i>Unionville, Conn.</i>	22 Whalley av.
Blachley Hoyt Porter	<i>Stamford, Conn.</i>	205 Crown st.
William Frederick Porter	<i>New Haven, Conn.</i>	139 Whalley av.
Foster Pruyn	<i>Albany, N. Y.</i>	65 Grove st.
Francis Winthrop Pyle	<i>Bridgeport, Conn.</i>	157 York st.
Clarence Marsh Reed	<i>Stamford, Conn.</i>	295 York st.
Walter Gordon Resor	<i>Cincinnati, O.</i>	255 Crown st.
Alfred Newton Richards	<i>Stamford, N. Y.</i>	186 C.
Philip Franklin Ripley	<i>Andover, Mass.</i>	153 F.
George Hadley Rountree	<i>Brooklyn, N. Y.</i>	264 York st.
Wallis Gibson Rowe	<i>Afton, N. Y.</i>	187 C.
Augustus Graham Ruggles	<i>Washington, D. C.</i>	9 Library st.
Theodore Frederic Russel	<i>Pottsville, Pa.</i>	1204 Chapel st.
Henry Vandyne Ryder	<i>Plainfield, N. J.</i>	116 College st.
Dean Sage, Jr.	<i>Albany, N. Y.</i>	276 Elm st.
DeWitt Linn Sage	<i>Ithaca, N. Y.</i>	114 High st.
John Cleveland Salter	<i>Carbondale, Ill.</i>	191 Bradley st.
George Whitefield Samson	<i>Portland, Me.</i>	1193 Chapel st.
James Putnam Sawyer	<i>Rutland, Vt.</i>	1204 Chapel st.
George William Schmidt, Jr.	<i>Pittsburgh, Pa.</i>	236 Crown st.
Barclay Preston Schoyer	<i>Pittsburgh, Pa.</i>	99 Wall st.
Carl Herman Schultz	<i>New York City</i>	311 York st.
John Frederick Scott, Jr.	<i>New York City</i>	248 York st.
Bertram Sears	<i>Duluth, Minn.</i>	293 York st.
Porter Farley Sheldon	<i>Brooklyn, N. Y.</i>	53 Lake pl.
Thomas Herrick Sherrard	<i>Morristown, N. J.</i>	314 Crown st.
Arthur Charles Sherwood	<i>Englewood, N. J.</i>	103 Park st.
Edward Movius Seward	<i>Buffalo, N. Y.</i>	226 York st.
Harry Burr Siglar	<i>Newburgh, N. Y.</i>	22 Lynwood st.
Albert Silverstein	<i>Denver, Col.</i>	64 s. M.
James Hervey Simpson	<i>St. Paul, Minn.</i>	254 York st.
Edward Laurence Smith	<i>Hartford, Conn.</i>	66 Whalley av.
Harris Kent Smith	<i>Brooklyn, N. Y.</i>	332 York st.
John Duke Smith	<i>Andover, Mass.</i>	226 Crown st.
Nathan Ayer Smyth	<i>New Haven, Conn.</i>	328 Temple st.
George Elliott Somers, Jr.	<i>New Haven, Conn.</i>	11 Vernon st.

Louis Michael Sonnenberg	<i>New Haven, Conn.</i>	696 State st.
Frank Edgar Spaulding	<i>East Norwalk, Conn.</i>	1010 Chapel st.
Raymond Chapman Spaulding	<i>Montclair, N. J.</i>	314 Crown st.
Lucius Kelsey Stevens	<i>Clinton, Conn.</i>	165 York st.
Arthur Temple Strong	<i>New Brunswick, N. J.</i>	9 Library st.
Walter Hatch Stuart	<i>Brooklyn, N. Y.</i>	120 High st.
Graham Sumner	<i>New Haven, Conn.</i>	140 Edwards st.
Dudley Vanness Sutphin	<i>Cincinnati, O.</i>	255 Crown st.
Victor Sutro	<i>New York City</i>	109 York st.
Herbert Leonard Sutton	<i>Springfield, Mass.</i>	145 College st.
Clifford Munroe Tappen	<i>Huntington, N. Y.</i>	38 Lynwood st.
Dale Stouffer Tate	<i>Pittsburgh, Pa.</i>	170 York st.
Ellsworth Mather Taylor	<i>New York City</i>	242 York st.
George Burton Taylor	<i>Erie, Pa.</i>	123 York st.
Burtis Judd Teasdale	<i>Westboro', Mass.</i>	93 Nicoll st.
Benjamin Augustus Thaxter	<i>Machias, Me.</i>	210 Prospect st.
Charles Edward Thomas	<i>Belleville, Ill.</i>	123 York st.
Benjamin Franklin Carver Thompson	<i>Chicago, Ill.</i>	242 York st.
John Henry Thompson, Jr.	<i>New York City</i>	281 Crown st.
Edward Tillotson	<i>New Haven, Conn.</i>	294 Lawrence st.
Frederick Tilney	<i>Brooklyn, N. Y.</i>	373 Crown st.
Prince Henry Tirrell, Jr.	<i>South Weymouth, Mass.</i>	219 York st.
William Asahel Todd	<i>Unionville, Conn.</i>	224 Division st.
Henry Hotchkiss Townshend	<i>New Haven, Conn.</i>	234 Church st.
Luther Stephen Trowbridge, Jr.	<i>Detroit, Mich.</i>	210 Prospect st.
Albert Phelps Tuller	<i>W. Simsbury, Conn.</i>	99 Lake pl.
David Cushman Twichell	<i>Hartford, Conn.</i>	276 Elm st.
John Butler Tytus, Jr.	<i>Middletown, O.</i>	159 Elm st.
Robb dePeyster Tytus	<i>New Haven, Conn.</i>	22 College st.
George Whitman Updike, Jr.	<i>St. Louis, Mo.</i>	91 Lake pl.
Joseph Milligan VanBlunk	<i>Camden, N. J.</i>	159 Orange st.
Philip VanIngen	<i>New York City</i>	231 York st.
Irving Dillaye Vann	<i>Syracuse, N. Y.</i>	1138 Chapel st.
Gysbert VanSteenwyk, Jr.	<i>La Crosse, Wisc.</i>	316 Crown st.
Robert King Vibert	<i>Unionville, Conn.</i>	82 Whalley av.
Louis Eugene Voorheis	<i>Cincinnati, O.</i>	24 High st.
Western Wesley Wager	<i>Brooklyn, N. Y.</i>	135 Howe st.
Minot Lester Wallace	<i>Birmingham, Conn.</i>	381 Crown st.
Clarence Walworth	<i>Newton, Mass.</i>	120 College st.
Edward Twichell Ware	<i>Hartford, Conn.</i>	242 York st.
Karl Webb	<i>New York City</i>	188 Crown st.
Ernest Alden Wells	<i>Hartford, Conn.</i>	404 Crown st.
William Shepard Keteltas Wetmore	<i>Newport, R. I.</i>	314 Crown st.
Alexander Wheeler	<i>Bridgeport, Conn.</i>	9 Library st.

Joseph Storer Wheelwright, 2d	<i>Bangor, Me.</i>	254 York st.
Charles Pinckney Whitin	<i>W. New Brighton, N. Y.</i>	168 York st.
Francis Millward Wilson	<i>New York City</i>	407 Orange st.
Huntington Wilson	<i>Chicago, Ill.</i>	223 York st.
Jonathan Dunham Wilson, Jr.	<i>Newburgh, N. Y.</i>	22 Lynwood st.
Worrall Wilson	<i>Colorado Springs, Col.</i>	25 High st.
Clarence Winter	<i>Indianapolis, Ind.</i>	170 York st.
John Humphrey Winterbotham	<i>Joliet, Ill.</i>	121 York st.
Frank Clark Yeomans	<i>New York City</i>	104 N.
Mason Young, Jr.	<i>New York City</i>	114 High st.

FRESHMEN, 315

SUMMARY

SENIORS	238
JUNIORS	247
SOPHOMORES	286
FRESHMEN	315
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SHEFFIELD SCIENTIFIC SCHOOL

GRADUATE STUDENTS

Francis Mulliken Adams, PH.B. } Yale University 1892	{	New Haven, Conn.	459 Prospect st.
Arthur Chambers Alexander, PH.B. } Yale University 1889	{	Honolulu, H. I.	90 Whalley av.
Henry Andrews Bumstead, B.A. } Johns Hopkins University 1891	{	New Haven, Conn.	83 Grove st.
George Flavius Campbell, PH.B. } Yale University 1892	{	New Haven, Conn.	277 Dixwell av.
Noyes Dwight Clark, PH.B. } Yale University 1891	{	Woodbridge, Conn.	199 York st.
John Williams Coe, PH.B. } Yale University 1893	{	Meriden, Conn.	22 Lynwood st.
Wesley Roswell Coe, PH.B. } Yale University 1892	{	Middlefield, Conn.	2 Hillhouse av.
Egbert Wheeler Cornwall, PH.B. } Yale University 1892	{	Patterson, N. Y.	397 Crown st.
Winthrop Edwards Dwight, B.A. } Yale University 1893	{	New Haven, Conn.	126 College st.
Edwin Horace Forbes, PH.B. } Yale University 1874	{	Torrington, Conn.	Torrington
Henri Comstock Garneau, B.A. } St. Louis University 1893	{	St. Louis, Mo.	126 Wall st.
William John Gies, B.S. } Gettysburg College 1893	{	Manheim, Pa.	114 High st.
George Herbert Girty, B.A. } Yale University 1892	{	Cleveland, O.	559 Howard av.
William Anthony Granville, PH.B. } Yale University 1893	{	New Haven, Conn.	96 Greene st.
Matthew Griswold, Jr., PH.B. } Yale University 1888	{	Erie, Pa.	A.
Josiah Harmar, PH.B. } Yale University 1892	{	Philadelphia, Pa.	A.
William Thomas Hildrup Howe, PH.B. } Yale University 1893	{	Killingworth, Conn.	53 Prospect st.
Charles Anthony Ingersoll, PH.B. } Yale University 1893	{	New Haven, Conn.	24 Elm st.
Henry Harrington Janeway, B.A. } Rutgers College 1893	{	New Brunswick, N. J.	137 Wall st.
Ulysses Simpson Grant Kendall, LL.B. } Yale University 1893	{	Pittsburgh, Pa.	116 Howe st.
James Hall Mason Knox, Jr., B.A. } Yale University 1892	{	New Haven, Conn.	82 Wall st.

Ralph Henry Kunstadter, } Budapest Oberrealschule 1890 }	New York City	281 Crown st.
Boynton Wells McFarland, C.E. } Yale University 1891 }	New Haven, Conn.	420 Temple st.
Charles Eugene McLane, PH.B. } Yale University 1893 }	Baltimore, Md.	227 Crown st.
Richard Fisher Manning, PH.B. } Yale University 1892 }	Brooklyn, N. Y.	A.
William Crosby Marshall, PH.B. } Yale University 1890 }	Cromwell, Conn.	117 Park st.
Lafayette Benedict Mendel, PH.D. } Yale University 1893 }	New Haven, Conn.	22 Trumbull st.
Robert Reitzell Miller, B.S. } Gettysburg College 1893 }	Pine Grove, Pa.	114 High st.
Edwin Morrison, PH.B. } Yale University 1888 }	Cincinnati, O.	A.
Henry Hotchkiss Murray, PH.B. } Yale University 1893 }	Viola, Del.	54 Garden st.
Miles Albion Pond, PH.B. } Yale University 1892 }	Torrington, Conn.	60 Lyon st.
Joseph Hyde Pratt, PH.B. } Yale University 1893 }	Hartford, Conn.	414 Crown st.
Frank Russell Rich, PH.B. } Yale University 1890 }	New Haven, Conn.	297 Crown st.
Cotton Atwood Smith, B.S. } Mass. Agric. Coll. 1893 }	North Hadley, Mass.	347 Crown st.
Frederic Clarence Spencer, PH.B. } Yale University 1893 }	Old Saybrook, Conn.	411 Temple st.
George Pratt Starkweather, PH.B. } Yale University 1891 }	New Haven, Conn.	344 Cedar st.
Alfred Hull Stevens, PH.B. } Yale University 1893 }	Clinton, Conn.	1245 Chapel st.
Alfred John Wakeman, PH.B. } Yale University 1887 }	New Haven, Conn.	72 Clark st.
Percy Talbot Walden, PH.B. } Yale University 1892 }	Brooklyn, N. Y.	338 Orange st.
William Morris Weller, B.A. } Western Maryland College 1889 }	Cumberland, Md.	59 Wall st.
Charles Mallory Williams, B.A. } Brooklyn Polytechnic Inst. 1890, } PH.B. Yale University 1892 }	Brooklyn, N. Y.	2 Hillhouse av.
Clarence Cicero Wilson, B.A. } Yale University 1892 }	Avon, Conn.	57 N. S. H.

GRADUATE STUDENTS, 42

SENIOR CLASS

Ralph Albree	<i>Allegheny, Pa.</i>	150 Grove st.
Frank Willson Aldrich	<i>McLean, Ill.</i>	62 W. D.
William Bradford Allen	<i>New Haven, Conn.</i>	1161 Chapel st.
Richard Clough Anderson	<i>Cincinnati, O.</i>	88 Wall st.
John Lorillard Arden	<i>Garrison's, N. Y.</i>	22 College st.
Orville Elias Babcock	<i>Chicago, Ill.</i>	131 Grove st.
Harry Ives Bartholomew	<i>Bristol, Conn.</i>	57 Prospect st.
Willard Bayliss	<i>Cleveland, O.</i>	44 College st.
George Alexander Berry	<i>Norwalk, Conn.</i>	West Haven
Louis Mark Bishop	<i>New Haven, Conn.</i>	71 Whalley av.
Gershom Burr Bradley, Jr.	<i>Saugatuck, Conn.</i>	200 Grove st.
Clifford Brewster Brainard	<i>Bristol, Conn.</i>	311 George st.
Henry Brewer	<i>New Haven, Conn.</i>	418 Orange st.
George Richard Brewster	<i>Newburgh, N. Y.</i>	125 High st.
Robert Edward Brooke	<i>Birdsboro, Pa.</i>	42 Elm st.
Morgan Prout Brooks	<i>New Haven, Conn.</i>	22 College st.
Charles Barto Brown	<i>New Haven, Conn.</i>	79 William st.
Frederick Zerban Brown	<i>Philadelphia, Pa.</i>	62 W. D.
Harold Winthrop Buck	<i>New York City</i>	42 Elm st.
Loomis Burrell	<i>Little Falls, N. Y.</i>	421 Temple st.
Alexander Byers, Jr.	<i>Pittsburgh, Pa.</i>	131 Grove st.
Paul Worthington Carhart	<i>Detroit, Mich.</i>	8 Prospect pl.
Sheldon Catlin	<i>Bridgeport, Conn.</i>	133 College st.
Thomas Frederick Chadwick	<i>Newburgh, N. Y.</i>	125 High st.
Jerome Stuart Chaffee	<i>Amenia, N. Y.</i>	122 Howe st.
Charles McLure Clark	<i>St. Louis, Mo.</i>	143 College st.
William Irving Clock	<i>Dayton, O.</i>	206 Crown st.
Samuel Gilbert Colt	<i>Pittsfield, Mass.</i>	131 Grove st.
Frederick Clifford Cooke	<i>Wallingford, Conn.</i>	204 Crown st.
Edward Vermilye Cox	<i>Philadelphia, Pa.</i>	43 College st.
Charles Eliab Coy	<i>Milford, Conn.</i>	206 Crown st.
Charles Howard Daly	<i>New York City</i>	150 Grove st.
Hughes Dayton	<i>Southport, Conn.</i>	206 Crown st.
James Milan Dickson, Jr.	<i>Mansfield, O.</i>	206 Crbwn st.
Harry Perry Disbecker	<i>New York City</i>	36 Elm st.
Arthur Malcolm Drummond	<i>West Haven, Conn.</i>	West Haven
Ralph Elliott Dusingberre	<i>Bristol, Conn.</i>	57 Prospect st.
Charles M. Edwards	<i>Plattsburgh, N. Y.</i>	44 Elm st.
John Leffingwell Eliot	<i>Clinton, Conn.</i>	103 Wall st.
Heman Ely, Jr.	<i>Elyria, O.</i>	125 York st.

Albert DeWolf Erskine	Chicago, Ill.	131 Grove st.
Frederick Philip Farnsworth	New Haven, Conn.	55 Trumbull st.
Harry Warner Farnum	Chicago, Ill.	88 Wall st.
Smith Farley Ferguson	Troy, N. Y.	42 Elm st.
Ernest Rudolph Folger	Oakland, Cal.	131 Grove st.
Robert True Fowler	New Haven, Conn.	1193 Chapel st.
John Thomas Gillespie	New York City	66 w. D.
William Henry Glenny, Jr.	Buffalo, N. Y.	61 w. D.
James Barnett Goodwillie	Cleveland, O.	88 Wall st.
Archibald Bauford Gwathmey, Jr.	New York City	88 Wall st.
Edward Clifton Hall	Wallingford, Conn.	204 Crown st.
Paul David Hamilton	Waterbury, Conn.	297 York st.
Edward Herbert Hart	New Britain, Conn.	88 Wall st.
Harrie Emile Hart	New Britain, Conn.	9 Library st.
Maxwell Stansbury Hart	New Britain, Conn.	88 Wall st.
Isaac Morris Heller	New Haven, Conn.	95 St. John st.
Harold Edmunds Hewlett	Babylon, N. Y.	125 High st.
Herbert Crary Hill	Mystic, Conn.	61 Prospect st.
Henry Hobart Holly, Jr.	New York City	150 Grove st.
Howard Parker Hotchkiss	New Haven, Conn.	1226 Chapel st.
Charles Wilson Hoyt	New Haven, Conn.	309 Howard av.
George Moulthrop Hubbell	Ansonia, Conn.	111 York st.
Everett Bradley Hurlburt	Roxbury, Conn.	113 Bristol st.
Frederick Thomas James	New York City	137 College st.
Clifford Stebbins Jennings	Southport, Conn.	22 Trumbull st.
Charles Stoddard Johnson	New Haven, Conn.	23 Trumbull st.
Frederick Allen Johnson	Norwich, Conn.	313 York st.
Howard Spafard Johnson	Brooklyn, N. Y.	287 York st.
Harry Lee Joyce	S. Egremont, Mass.	206 Crown st.
Arthur Tryon Kemp	New York City	90 Wall st.
Irvine Keyser	Baltimore, Md.	42 Elm st.
Frederick Wilkinson Kilbourne	Meriden, Conn.	Meriden
Charles Rufus Knapp	Auburn, N. Y.	131 Grove st.
Arthur James Ladd	Uncasville, Conn.	150 Grove st.
Frederick Martin Landé	New York City	125 High st.
Burton James Lee	New Haven, Conn.	102 Dewitt st.
Frank Lee	Port of Spain, Trinidad	133 College st.
Frederic Henry Lee	Erie, Pa.	125 High st.
Tracy Samuel Lewis	Naugatuck, Conn.	227 Crown st.
Mitchell Campbell Lilley, Jr.	Columbus, O.	263 Crown st.
James Whiting Maples	Norwalk, Conn.	120 High st.
Eugene Lawrence Messler	Pittsburgh, Pa.	131 Grove st.
Louis Rochat Metcalfe	Stamford, Conn.	131 Grove st.
James Hoyt Miller	Stamford, Conn.	206 Crown st.

John Crannell Minor, Jr.	<i>New York City</i>	34 Hillhouse av.
Howard Allen Mix	<i>West Haven, Conn.</i>	West Haven
Jerome Alfred Clinton Morse	<i>Brooklyn, N. Y.</i>	22 College st.
Frederick Searles Munger	<i>Herkimer, N. Y.</i>	22 College st.
Arthur Samuel Nathan	<i>Chicago, Ill.</i>	124 Wall st.
Francis Irving Nettleton	<i>Shelton, Conn.</i>	Shelton
Thomas Keaton Norris	<i>New York City</i>	29 Trumbull st.
Fred. Elmer Northrop	<i>Southport, Conn.</i>	22 Trumbull st.
Frederick Erskine Olmsted	<i>Hartford, Conn.</i>	107 Wall st.
Thomas Bucklin Owen	<i>Providence, R. I.</i>	227 Crown st.
Henry Francis Parmelee	<i>New Haven, Conn.</i>	598 Chapel st.
Silas Beach Patterson	<i>Torrington, Conn.</i>	122 Howe st.
John Crist Peck	<i>Newburgh, N. Y.</i>	117 Elm st.
George Hoyt Penfield, Jr.	<i>Catskill, N. Y.</i>	53 Prospect st.
Alois John Joseph Pfeiffer	<i>Ansonia, Conn.</i>	34 Cottage st.
George Washington Pike, Jr.	<i>S. Killingly, Conn.</i>	57 Prospect st.
Charles Biddle Pinney	<i>Stafford, Conn.</i>	206 Crown st.
William Spencer Pope, Jr.	<i>St. Louis, Mo.</i>	131 Grove st.
Joseph Hersey Pratt	<i>Middleboro, Mass.</i>	131 Howe st.
William Procter	<i>Williamstown, Mass.</i>	90 Wall st.
Abram Nave Ranney	<i>St. Joseph, Mo.</i>	90 Wall st.
Chauncey Brewster Rice	<i>New Haven, Conn.</i>	Suburban st.
Charles Leonard Frost Robinson	<i>New York City</i>	A.
Ralph Stewart Robinson	<i>Colchester, Conn.</i>	30 Home pl.
Alexander Parker Rogers	<i>New York City</i>	43 College st.
George Frederick Root	<i>Buffalo, N. Y.</i>	287 York st.
Samuel Morehead Russell	<i>Bedford, Pa.</i>	285 York st.
John Sargent	<i>New Haven, Conn.</i>	51 Elm st.
Wilfred Willis Savage	<i>Hartford, Conn.</i>	107 Wall st.
George Sheffield	<i>Attleboro, Mass.</i>	43 College st.
Frederick Nichols Sinks	<i>Columbus, O.</i>	125 High st.
James Dudley Skinner	<i>Denver, Col.</i>	313 York st.
Edward Page Smith	<i>Chicago, Ill.</i>	36 Elm st.
Chester Stowe Spencer	<i>Guilford, Conn.</i>	159 York st.
Harry Merriman Steele	<i>Waterbury, Conn.</i>	124 W. D.
Robert Curtis French Stoddard	<i>Milford, Conn.</i>	19 Wall st.
Edwin Howard Thomes	<i>Rowayton, Conn.</i>	200 Grove st.
Victor Corse Thorne	<i>New York City</i>	43 College st.
Frederick Eugene Toquet	<i>Westport, Conn.</i>	200 Grove st.
Louis Downer Tracy	<i>New Haven, Conn.</i>	297 Crown st.
Charles Rogers Treat	<i>Orange, Conn.</i>	Orange st.
Elisha Grant Trowbridge	<i>New Haven, Conn.</i>	685 Orange st.
Edward Lewis Uhl	<i>New Haven, Conn.</i>	27 Bradley st.
James Ashman Veech	<i>New Haven, Conn.</i>	23 Eld st.

Sanford Hosea Wadhams	<i>New Haven, Conn.</i>	101 Lake pl.
Joseph Patten Wales	<i>Wilmington, Del.</i>	421 Temple st.
James Walker, Jr.	<i>West Haven, Conn.</i>	127 Orange st.
Francis Castleman Waller	<i>Chicago, Ill.</i>	103 Wall st.
Francis Downs Wanning	<i>Birmingham, Conn.</i>	36 Elm st.
Benjamin Glyde Wells	<i>Allegheny, Pa.</i>	43 College st.
Lynde Phelps Wheeler	<i>Bridgeport, Conn.</i>	9 Library st.
Dudley Phelps Wilkinson, Jr.	<i>Chicago, Ill.</i>	133 College st.
Samuel Porter Williams	<i>Hartford, Conn.</i>	104 Wall st.
Edward Taylor Wright	<i>Hancock, Mich.</i>	206 Crown st.
Willis Morris Wright	<i>Fair Haven, Conn.</i>	87 Church st.
Lawrence Yates	<i>Milwaukee, Wisc.</i>	263 Crown st.

SENIORS, 140

JUNIOR CLASS

Carlton Nisbet Aborn	<i>Yonkers, N. Y.</i>	297 York st.
Thatcher Magoun Adams	<i>Scarsdale, N. Y.</i>	43 College st.
Stewart Cortlandt Alger	<i>New York City</i>	59 Wall st.
Grosvenor Noyes Allen	<i>Kenwood, N. Y.</i>	59 Grove st.
Robert Anderson	<i>Cincinnati, O.</i>	88 Wall st.
George Armstrong	<i>Ponce, Porto Rico, W. I.</i>	206 Crown st.
George Humphrey Armstrong	<i>Minneapolis, Minn.</i>	22 College st.
Richard Armstrong	<i>Hampton, Va.</i>	131 Grove st.
John Shippen Atkins	<i>Pottsville, Pa.</i>	1044 Chapel st.
Bayard Barnes	<i>New Haven, Conn.</i>	1442 Chapel st.
William Samuel Barnes	<i>New Haven, Conn.</i>	482 Howard av.
Albert Raymond Barton	<i>Jamestown, N. Y.</i>	36 Elm st.
Rensselaer Wardwell Bartram	<i>Newark, N. J.</i>	125 High st.
Thomas Heaton Beers	<i>West Haven, Conn.</i>	25 Vernon st.
William Cooke Beers	<i>New Haven, Conn.</i>	583 Orange st.
John Eastman Belding	<i>Springfield, Mass.</i>	120 High st.
Paul Beck Belin	<i>Scranton, Pa.</i>	137 College st.
Henry vanderVeer Bergen	<i>Bay Ridge, N. Y.</i>	132 Wall st.
William Ross Black	<i>Erie, Pa.</i>	126 Wall st.
John Armine Bookwalter	<i>Springfield, O.</i>	125 High st.
Sydney Cecil Borg	<i>New York City</i>	1076 Chapel st.
Henry Judah Brandon	<i>Memphis, Tenn.</i>	132 Wall st.
Roscoe Egbert Bronson	<i>Ansonia, Conn.</i>	Ansonia
Frank William Brown	<i>New Haven, Conn.</i>	44 Elm st.
Edward Erle Brownell	<i>San Francisco, Cal.</i>	22 College st.
Edward Lawrence Brownell	<i>Sandusky, O.</i>	22 College st.

Robert Carmichael Burchard	<i>Uncasville, Conn.</i>	285 York st.
Ernest Hyde Cady	<i>Hartford, Conn.</i>	42 Elm st.
Alexander Cahn	<i>New Haven, Conn.</i>	18 Warren st.
William Goshorn Caldwell	<i>Wheeling, W. Va.</i>	130 Wall st.
Clarence Wellington Campbell	<i>New York City</i>	206 Crown st.
Luther Milo Case	<i>Barkhamsted, Conn.</i>	86 Elliott st.
Hendon Chubb	<i>East Orange, N. J.</i>	250 York st.
George Clinton Clarke	<i>Chicago, Ill.</i>	137 College st.
Frank Benedict Cleland	<i>New York City</i>	124 Wall st.
Harry Trumbull Clifton	<i>Washington, D. C.</i>	233 York st.
Henry P. Coburn	<i>Indianapolis, Ind.</i>	22 College st.
George Harvey Coe	<i>Hartford, Conn.</i>	134 College st.
Herbert Conyngham	<i>Wilkes-Barre, Pa.</i>	226 Crown st.
Clarence Edwin Coolidge	<i>East Hartford, Conn.</i>	41 High st.
Harvey Denison Cowee	<i>Troy, N. Y.</i>	36 Elm st.
William Benton Cowin	<i>Omaha, Nebr.</i>	22 College st.
Richard Teller Crane, Jr.	<i>Chicago, Ill.</i>	131 Grove st.
Carl Atwater Curtiss	<i>Woodbury, Conn.</i>	295 York st.
Frank Delano Cushing	<i>Bath, Me.</i>	76 Howe st.
James DeWolf Cutting	<i>New York City</i>	1076 Chapel st.
Alfred Warner Dater	<i>Brooklyn, N. Y.</i>	127 College st.
John Staige Davis	<i>San Antonio, Tex.</i>	131 Grove st.
Harry Vallett Day	<i>New York City</i>	86 Wall st.
Laurence Nelson DeGolyer	<i>Evanston, Ill.</i>	131 Grove st.
Frederick Wead Drury, Jr.	<i>St. Louis, Mo.</i>	42 Elm st.
William King Duckworth	<i>Cincinnati, O.</i>	86 Wall st.
Francis Ireneé duPont	<i>Wilmington, Del.</i>	127 College st.
Leonard Henry Eicholtz, Jr.	<i>Denver, Col.</i>	1040 Chapel st.
Horatio Nelson Emmons	<i>St. Louis, Mo.</i>	124 Wall st.
Auguste Berthold Ewing, Jr.	<i>St. Louis, Mo.</i>	131 Grove st.
Charles Henry Farnam, Jr.	<i>New York City</i>	131 Grove st.
John Arthur Farwell, Jr.	<i>Chicago, Ill.</i>	131 Grove st.
George Ingham Feeter	<i>Little Falls, N. Y.</i>	42 Elm st.
Edward Galligan Fennelly	<i>Birmingham, Conn.</i>	7 Library st.
William Smith Ferguson	<i>Pittsburgh, Pa.</i>	127 College st.
Harry Alexander Fields	<i>New York City</i>	203 York st.
Richard Holden Follis, Jr.	<i>San Francisco, Cal.</i>	127 College st.
Harry Ward Foote	<i>New Haven, Conn.</i>	Suburban st.
Harry Noble Foster	<i>New Haven, Conn.</i>	220 Orange st.
George Snaphel Frank	<i>Brooklyn, N. Y.</i>	109 Wall st.
John Jay Fredericks	<i>Syracuse, N. Y.</i>	133 College st.
Isaac Wheeler Geer	<i>Central Village, Conn.</i>	57 Prospect st.
Andrew James Gilmour	<i>Fulton, N. Y.</i>	36 Elm st.
John Edward Goetchius, Jr.	<i>New York City</i>	43 College st.

John Campbell Greenway	<i>Hot Springs, Ark.</i>	131 Grove st.
Theodore Wright Griggs	<i>Tacoma, Wash.</i>	131 Grove st.
Whitman Gunther	<i>Chicago, Ill.</i>	113 Wall st.
Allan Everett Hall	<i>Brookville, Pa.</i>	295 York st.
James Spencer Hall	<i>Ansonia, Conn.</i>	Ansonia
James Willet Hall	<i>New York City</i>	124 Wall st.
Robert William Hall	<i>New Haven, Conn.</i>	88 Trumbull st.
Sherman Rogers Hall	<i>Buffalo, N. Y.</i>	43 College st.
Willis Mullings Hall	<i>Waterbury, Conn.</i>	289 York st.
Robert Austin Hamlin	<i>Chicago, Ill.</i>	131 Grove st.
Louis Fredrick Hart	<i>Cleveland, O.</i>	127 College st.
Leon Sturges Hawley	<i>Bridgeport, Conn.</i>	82 Broadway
William Orville Hickok	<i>Harrisburg, Pa.</i>	131 Grove st.
David Arthur Hill	<i>Chicago, Ill.</i>	126 Wall st.
Henry Steadman Hitchcock	<i>Woodbury, Conn.</i>	295 York st.
Harry Clifford Holcomb	<i>New Haven, Conn.</i>	200 Oak pl.
Walter Armour Holden	<i>Bridgeport, Conn.</i>	85 w. D.
Earle Cooke Hopkins	<i>Danielsonville, Conn.</i>	138 College st.
Louis Davis Hopkins	<i>Catskill, N. Y.</i>	55 Prospect st.
George Merriam Howard	<i>Montclair, N. J.</i>	103 Wall st.
Slocum Howland	<i>Catskill, N. Y.</i>	103 Wall st.
Frederick Maxfield Hoyt	<i>Stamford, Conn.</i>	130 Wall st.
Augustus Zerega Huntington	<i>Plainfield, N. J.</i>	134 College st.
Samuel Michael Israeli	<i>Hartford, Conn.</i>	208 Grove st.
Irvine Sinclair Jackson	<i>Chicago, Ill.</i>	86 Wall st.
Frederick Israel Jansen	<i>Fonda, N. Y.</i>	293 York st.
Walter Barry Jennings	<i>South Norwalk, Conn.</i>	285 York st.
Lee Arthur Johnson	<i>Cleveland, O.</i>	43 College st.
Rankin Johnson	<i>Chicago, Ill.</i>	116 w. D.
Frank Winthrop Jordan	<i>New York City</i>	132 Wall st.
James Dawson Layng, Jr.	<i>New York City</i>	103 Wall st.
Norman Leeds	<i>Stamford, Conn.</i>	130 Wall st.
Ernest Abraham Limburger	<i>New York City</i>	233 York st.
Carl Robins Lindenberg	<i>Columbus, O.</i>	132 Wall st.
William Walker Little	<i>New Haven, Conn.</i>	74 Pearl st.
James Alexander McCrea	<i>Pittsburgh, Pa.</i>	226 Crown st.
William McEnerney	<i>Derby, Conn.</i>	65 York st.
Henry Pierre McQuaid	<i>New Haven, Conn.</i>	181 Orchard st.
Benjamin Franklin Mansfield	<i>New Haven, Conn.</i>	12 Academy st.
Egbert Marsh	<i>Bridgeport, Conn.</i>	134 College st.
Frank Thompson Marsh	<i>Hartford, Conn.</i>	437 Orange st.
George Bragg Massey, Jr.	<i>Watertown, N. Y.</i>	116 w. D.
Charles Edward Meigs	<i>Waterbury, Conn.</i>	59 Grove st.
Henry Warner Merwin	<i>New Haven, Conn.</i>	28 College st.

Howard Farr Metcalf	<i>Holyoke, Mass.</i>	59 Wall st.
Walter Louis Mitchell	<i>New Haven, Conn.</i>	Edgewood
George Webber Mixer	<i>New Haven, Conn.</i>	144 Edwards st.
George Norris Morgan	<i>Pittsburgh, Pa.</i>	139 Elm st.
Charles Augustine Morrogh	<i>New York City</i>	131 High st.
Frederick Edwin Newton	<i>Buckingham, Conn.</i>	53 Trumbull st.
Robert Allen Niggeman	<i>St. Louis, Mo.</i>	250 York st.
John Richard North	<i>New Haven, Conn.</i>	120 College st.
Francis Henry Oldershaw	<i>New Britain, Conn.</i>	29 Sylvan av.
Charles Hotchkiss Osborn	<i>New Haven, Conn.</i>	96 Ellsworth av.
Paul Orange Owsley	<i>Chicago, Ill.</i>	131 Grove st.
Walter Warner Palmer	<i>Utica, N. Y.</i>	124 Wall st.
Frank Judson Parker	<i>Branford, Conn.</i>	206 Crown st.
William Usher Parsons	<i>New York City</i>	130 Wall st.
Clarence Bardwell Peck	<i>Plainfield, N. J.</i>	133 College st.
John Smith Phelps	<i>Springfield, Mo.</i>	250 York st.
William Wallace Pike	<i>Chicago, Ill.</i>	42 Elm st.
William Bull Pringle	<i>Oakland, Cal.</i>	59 Wall st.
Joseph Ridge Quinby, Jr.	<i>New York City</i>	126 Wall st.
Richard Foster Rand	<i>Meriden, Conn.</i>	27 High st.
Daniel Leasure Raymond	<i>Minneapolis, Minn.</i>	1044 Chapel st.
Herbert Calhoun Reed	<i>Stamford, Conn.</i>	289 York st.
Louis Condict Richards	<i>Unionville, Conn.</i>	82 Whalley av.
Henry Holdship Robinson	<i>Pittsburgh, Pa.</i>	86 Wall st.
Henry Hollister Robinson	<i>Hartford, Conn.</i>	136 College st.
Joseph Wickham Roe	<i>Brooklyn, N. Y.</i>	37 College st.
Stephen Bogert Roe	<i>Highland Falls, N. Y.</i>	132 Wall st.
Frederick Rustin	<i>Omaha, Nebr.</i>	43 College st.
George Patten Savidge	<i>Spring Lake, Mich.</i>	22 College st.
Louis Saxon	<i>New Haven, Conn.</i>	37 Silver st.
Ernest George Schurig	<i>New Haven, Conn.</i>	105 Hamilton st.
George Harvey Seward	<i>West Haven, Conn.</i>	105 Wooster st.
George W. Shaw	<i>Toledo, O.</i>	88 Wall st.
Frederick Deming Sherman	<i>Brooklyn, N. Y.</i>	64 w. D.
Lloyd Waddell Smith	<i>Parsippany, N. J.</i>	60 w. D.
Theodore Edward Smith	<i>Milford, Conn.</i>	53 Prospect st.
George Harry Southard, Jr.	<i>Brooklyn, N. Y.</i>	42 Elm st.
Charles Sing Stephenson	<i>Brooklyn, N. Y.</i>	72 w. D.
Frank Bryan Stephenson	<i>Brooklyn, N. Y.</i>	131 Grove st.
Guy Ernest Stevens	<i>Scranton, Pa.</i>	60 w. D.
Philip Tracy Stillman	<i>Elizabeth, N. J.</i>	43 College st.
James Terry	<i>Hartford, Conn.</i>	133 College st.
Reuel Harvey Thayer, Jr.	<i>Buffalo, N. Y.</i>	131 Grove st.
George Edwin Thompson, Jr.	<i>New Haven, Conn.</i>	63 w. D.

Francis Harrison Todd	<i>New Haven, Conn.</i>	62 Whalley av.
James Rockwell Torbert	<i>Dubuque, Iowa</i>	124 Wall st.
Theophilus Titus Vandergrift	<i>Jamestown, N. Y.</i>	36 Elm st.
Edgar Albert VanderVeer	<i>Albany, N. Y.</i>	293 York st.
George Washington VanSlyke	<i>Albany, N. Y.</i>	36 Elm st.
William Hoag VanSlyke	<i>Albany, N. Y.</i>	36 Elm st.
Frederick Herman Verhoeff	<i>Louisville, Ky.</i>	27 High st.
Oscar Harry Vieths	<i>St. Louis, Mo.</i>	131 Grove st.
Harrison Grow Wagner	<i>New Haven, Conn.</i>	40 Pearl st.
Harry Selden Waite	<i>Columbus, O.</i>	125 High st.
Charles Clearman Walbridge	<i>Brooklyn, N. Y.</i>	126 Wall st.
Cleveland Elmer Watrous	<i>Chester, Conn.</i>	132 College st.
Halsey Albert Weaver	<i>Woodstock, Conn.</i>	186 Rosette st.
Harry Gideon Wells	<i>New Haven, Conn.</i>	40 Trumbull st.
Daniel Urquhart Wilcox	<i>New Haven, Conn.</i>	46 York sq.
William Hodges Wilcox	<i>Waterbury, Conn.</i>	289 York st.
George William Lane Woodruff	<i>New York City</i>	114 College st.

JUNIORS, 175

FRESHMAN CLASS

Alva Blanchard Adams	<i>Pueblo, Col.</i>	61 Grove st.
Ernest Kempton Adams	<i>New York City</i>	135 Wall st.
Wyatt Hamilton Allen	<i>San Francisco, Cal.</i>	389 Temple st.
Franklin Welles Allis	<i>Wallingford, Conn.</i>	Wallingford
Percy Weir Arnold	<i>Fort Grant, Arizona</i>	65 Grove st.
Richard Henry Baker	<i>Hartford, Conn.</i>	41 High st.
Milton Ballin	<i>New York City</i>	124 Wall st.
George Harry Barbour	<i>New Haven, Conn.</i>	24 College st.
William Woodward Barclay	<i>Philadelphia, Pa.</i>	294 Elm st.
Henry Barnes, Jr.	<i>New Haven, Conn.</i>	135 Davenport av.
John McGuffey Barnett	<i>Dayton, O.</i>	59 w. D.
Walton Windsor Beals	<i>New York City</i>	134 College st.
Guy Erastus Beardsley	<i>Hartford, Conn.</i>	155 Elm st.
Edward Theodore Bell, Jr.	<i>Paterson, N. J.</i>	389 Temple st.
George Edwin Bergstrom	<i>Neenah, Wisc.</i>	395 Temple st.
Charles Miller Billings	<i>New York City</i>	109 Wall st.
William Letchworth Blakeslee	<i>Buffalo, N. Y.</i>	395 Temple st.
Myron Irving Borg	<i>New York City</i>	1076 Chapel st.
Thomas Bowen	<i>Ansonia, Conn.</i>	Ansonia
Winthrop Brainerd	<i>Montreal, Canada</i>	54 Wall st.
Thomas Crossly Brett	<i>New Haven, Conn.</i>	36 Gilbert av.
Robert Arthur Bright	<i>New Haven, Conn.</i>	310 Elm st.

Daniel Edwards Brinsmade	<i>Shelton, Conn.</i>	17 Lake pl.
Frank Faber Brooks	<i>Pittsburgh, Pa.</i>	409 Temple st.
Henry Vincent Brothers	<i>New Haven, Conn.</i>	61 Court st.
Arthur Flint Brown	<i>New York City</i>	405 Temple st.
Harry David Browne	<i>Williamsport, Pa.</i>	51 Lake pl.
Henry Robinson Buck	<i>Wethersfield, Conn.</i>	53 Lake pl.
George Berry Bughman	<i>Pittsburgh, Pa.</i>	143 College st.
George Lincoln Bunnell	<i>Bridgeport, Conn.</i>	53 Prospect st.
David Hamlin Burrell, Jr.	<i>Little Falls, N. Y.</i>	421 Temple st.
Jonathan Prescott Burton, Jr.	<i>Massillon, O.</i>	389 Temple st.
Zenas Potter Candee	<i>Bethlehem, Conn.</i>	105 Dwight st.
Wallace Comstock Capen	<i>St. Louis, Mo.</i>	409 Temple st.
Isaac Seldon Case	<i>Tobyhanna, Pa.</i>	427 Temple st.
Elbert Howard Catlin	<i>Northfield, Conn.</i>	838 Chapel st.
Charles Henry Booth Chapin	<i>Englewood, N. J.</i>	103 Park st.
Charles Daniel Chapman	<i>San José, Cal.</i>	299 York st.
Frederick Storrs Chapman	<i>Hartford, Conn.</i>	155 Elm st.
Richard Otis Cheney, Jr.	<i>S. Manchester, Conn.</i>	150 College st.
Edgar Eynon Chivers	<i>Buffalo, N. Y.</i>	8 Prospect pl.
George Harry Clark	<i>New Haven, Conn.</i>	125 Spring st.
Arthur DeWitt Cochran	<i>New York City</i>	250 York st.
Tristram Roberts Coffin	<i>Long Branch, N. J.</i>	22 College st.
Clarence Lyman Collins, 2d	<i>Hartford, Conn.</i>	361 George st.
Archibald Francis Commiskey	<i>Brooklyn, N. Y.</i>	415 George st.
Frank William Conant	<i>Toledo, O.</i>	22 College st.
Wallace Reynolds Conduct, Jr.	<i>Evanston, Ill.</i>	263 Crown st.
Wilbur Rogers Corbin	<i>New Britain, Conn.</i>	192 Grove st.
Wiley O. Dillon Cox, Jr.	<i>Kansas City, Mo.</i>	393 Temple st.
John List Crawford	<i>Terre Haute, Ind.</i>	425 Temple st.
James Crapo Cristy	<i>Detroit, Mich.</i>	150 College st.
Richard Turner Dana	<i>Lenox, Mass.</i>	226 York st.
Charles Webster Danforth	<i>New Haven, Conn.</i>	63 Clark st.
Franck George Dart	<i>Kingston, Pa.</i>	40 Trumbull st.
Edward Watts Davies	<i>Dayton, O.</i>	133 College st.
Morgan Davis	<i>Staten Island, N. Y.</i>	101 Wall st.
William Block Dean, Jr.	<i>St. Louis, Mo.</i>	391 Temple st.
Lee DeForest	<i>Talladega, Ala.</i>	411 Temple st.
Lucius Fox Deming	<i>Amboy, Ill.</i>	368 Quinpiac st.
Ralph Waldo Emerson DeWeese	<i>Dayton, O.</i>	134 College st.
Norman Edward Ditman	<i>Englewood, N. J.</i>	103 Park st.
Hubert Cowles Downs	<i>Chicago, Ill.</i>	393 Temple st.
James Thomas Drummond, Jr.	<i>St. Louis, Mo.</i>	389 Temple st.
Clarence Smith Dunbar	<i>Torrington, Conn.</i>	10 Ashmun st.
Hubert Ward Eccleston	<i>Griswold, Conn.</i>	61 Prospect st.

Earl Samuel Edgerton	Ansonia, Conn.	Ansonia
Ernest Albert Edwards	Brooklyn, N. Y.	132 College st.
Augustus Hartje Eggers	Allegheny, Pa.	124 Park st.
Julius Wooster Eggleston	New London, Conn.	32 Trumbull st.
John Magee Ellsworth	Watkins, N. Y.	46 College st.
Bennett William Farnham	Westville, Conn.	Westville
Edward Hubbard Farren	Fair Haven, Conn.	Fair Haven
Silas Stewart Feeter	Little Falls, N. Y.	99 Wall st.
David Cotton Fenner	Chicago, Ill.	137 Wall st.
Sanford John Ferris	New Haven, Conn.	192 Davenport av.
Clifford Bernard Fiero	Albany, N. Y.	389 Temple st.
George Hamilton Flinn	Pittsburgh, Pa.	391 Temple st.
Nathan Munroe Flower	New York City	144 High st.
Joseph Louis Forepaugh	St. Paul, Minn.	114 High st.
William Frederick Forepaugh	St. Paul, Minn.	114 High st.
Edward Mumford Fowler	New York City	71 W. D.
George Wilbur Fishe Gillette	New Haven, Conn.	9 Eld st.
Henry Styer Grove, Jr.	Germanstown, Pa.	120 High st.
George Lindsey Hailman	Pittsburgh, Pa.	109 York st.
Robert Whitney Hanington	Denver, Col.	405 Temple st.
Howell Ross Hanson	Philadelphia, Pa.	263 Crown st.
William Hobart Hare, Jr.	New York City	122 Wall st.
Walter Henry Hart	New Britain, Conn.	411 Temple st.
John Francis Havemeyer	Yonkers, N. Y.	154 Grove st.
George Waller Hawley	Bridgeport, Conn.	159 Elm st.
William Patrick Healy	Bridgeport, Conn.	Bridgeport
John Jones Hewitt	Tacoma, Wash.	254 York st.
George Henry Hickox	S. Britain, Conn.	244 Edgewood av.
Otto Gustave William Hintz, Jr.	New Haven, Conn.	1176 Chapel st.
Nathaniel White Hobbs	Concord, N. H.	397 Temple st.
Fred A. Holcomb	New Haven, Conn.	528 Chapel st.
Henry Hooker	New Britain, Conn.	New Britain
Lemuel Robert Hopton	New Haven, Conn.	13 Lake pl.
Frank Edgar Howard	Hartford, Conn.	150 College st.
James Ashworth Howarth, Jr.	New Haven, Conn.	34 Vernon st.
Augustus Stout Hunt	Hopewell, N. J.	334 York st.
Jonathan Ingersoll	New Haven, Conn.	24 Elm st.
Hugh Martin Inman	New York City	114 High st.
Holmes Condict Jackson	Newark, N. J.	78 Lake pl.
Ward Sawtelle Jacobs	Hartford, Conn.	84 Wall st.
Alexander Nicoll Jerrems	Chicago, Ill.	104 Wall st.
Edwards Johnson	New York City	420 Temple st.
George Thomes Johnson	New Haven, Conn.	84 Greene st.
Edgcomb Lee Jones	Chicago, Ill.	425 Temple st.

Frederick Foulds Joslin	<i>New Haven, Conn.</i>	73 Ward st.
Martin Kennedy, Jr.	<i>Johnstown, N. Y.</i>	118 College st.
Norman Clarke King	<i>Cleveland, O.</i>	54 Wall st.
William King	<i>Chicago, Ill.</i>	407 Temple st.
George Oliver Kingsbury, Jr.	<i>Springfield, Mass.</i>	59 Grove st.
Richard Shelton Kirby	<i>Port Chester, N. Y.</i>	317 Crown st.
William Edward Julius Kirk	<i>New Canaan, Conn.</i>	200 Grove st.
Ernest Leroy Lane	<i>Hartford, Conn.</i>	67 Whalley av.
George Arthur Lanphear	<i>Peace Dale, R. I.</i>	450 Elm st.
Charles Edward Lea	<i>Cincinnati, O.</i>	37 College st.
Harold Lee	<i>E. Orange, N. J.</i>	363 Elm st.
Harry Spang Leech	<i>New York City</i>	248 York st.
Charles Warren Leland	<i>Chicago, Ill.</i>	397 Temple st.
Willard Parker Lindley	<i>New York City</i>	295 York st.
Egbert Phelps Lott	<i>New York City</i>	22 College st.
William Marshall Lund	<i>Bridgeport, Conn.</i>	266 York st.
William Clardy Lusk	<i>Nashville, Tenn.</i>	347 York st.
Charles Woolsey Lyon	<i>Hartford, Conn.</i>	137 College st.
Clarence Alexander Mabie	<i>Tidioute, Pa.</i>	132 Wall st.
Harry Darlington McCandless	<i>Allegheny, Pa.</i>	393 Temple st.
Charles Francis McCarthy	<i>New Haven, Conn.</i>	116 Davenport av.
Charles Edward McElroy	<i>Albany, N. Y.</i>	41 High st.
Harry Livingston McGee	<i>Plainfield, N. J.</i>	409 Temple st.
Francis Davenport McMillan	<i>Detroit, Mich.</i>	131 High st.
Edward O'Reilly Maguire	<i>Birmingham, Conn.</i>	65 York st.
George Albert Marcellus	<i>Oneida, N. Y.</i>	118 College st.
Jemuel Gates Marty	<i>Kansas City, Mo.</i>	31 Trumbull st.
Earle Rumsey Marvin	<i>Pittsburgh, Pa.</i>	156 Grove st.
William Linton Mather	<i>New Haven, Conn.</i>	19 Warren st.
Robert Corwin Mead	<i>Dayton, O.</i>	133 College st.
Samuel Gilbert Meeker	<i>Westport, Conn.</i>	59 Prospect st.
Charles Sterling Millard, Jr.	<i>Indianapolis, Ind.</i>	397 Temple st.
Clark Aubert Miller	<i>New Rochelle, N. Y.</i>	393 Temple st.
Franklin Hoyt Miller	<i>Stamford, Conn.</i>	146 College st.
Harvy Miller	<i>Pittsburgh, Pa.</i>	152 Grove st.
Otto Hensch Miller	<i>Cleveland, O.</i>	54 Wall st.
James Leslie Ming	<i>Helena, Mont.</i>	1044 Chapel st.
Edward Eastman Minor	<i>New Haven, Conn.</i>	123 Columbus av.
Robert Mitchell, Jr.	<i>Cincinnati, O.</i>	154 Grove st.
David Thomas Moore	<i>Brooklyn, N. Y.</i>	141 College st.
Arthur Putnam Morrill	<i>Concord, N. H.</i>	397 Temple st.
Walter Murray	<i>Norwich, Conn.</i>	58 Dixwell av.
Edward Seymour Newhall	<i>Buffalo, N. Y.</i>	59 Wall st.
Grosvenor Teackle Nicholas	<i>New York City</i>	109 Wall st.

William Browning Nisbet	<i>Yonkers, N. Y.</i>	141 College st.
Leslie Gross Parker	<i>Chicago, Ill.</i>	393 Temple st.
Arthur Williams Pearce	<i>Denver, Col.</i>	250 York st.
Charles Erasmus Peck	<i>Hartford, Conn.</i>	59 Grove st.
Frederick Peiter	<i>Bridgeport, Conn.</i>	Bridgeport
Walter Grant Penfield	<i>E. Berlin, Conn.</i>	48 Wooster st.
Robert Hartley Perdue	<i>Cleveland, O.</i>	40 Elm st.
Robert Jackman Perew	<i>Buffalo, N. Y.</i>	395 Temple st.
Clinton Mortimer Pettis	<i>New Haven, Conn.</i>	37 High st.
Marion Beardsley Phelps	<i>Stamford, Conn.</i>	389 Temple st.
John Shaffer Phipps	<i>Pittsburgh, Pa.</i>	34 Hillhouse av.
Edwin Francis Platt	<i>Dayton, O.</i>	22 College st.
John Metcalfe Polk	<i>New York City</i>	114 High st.
Ashley Pond, Jr.	<i>Detroit, Mich.</i>	59 Wall st.
William Henry Pouch	<i>Brooklyn, N. Y.</i>	393 Temple st.
George Palmer Putnam, Jr.	<i>Elizabeth, N. J.</i>	145 College st.
Samuel Lees Quinby	<i>New York City</i>	126 Wall st.
Charles Theodore Ramsden	<i>Santiago de Cuba, Cuba</i>	147 College st.
Frederick Archer Raymond	<i>Norwalk, Conn.</i>	524 Chapel st.
George Reed	<i>Pittsburgh, Pa.</i>	109 York st.
Ralph Duryea Reed	<i>S. Weymouth, Mass.</i>	405 Temple st.
Charles Benedict Rodman	<i>Waterbury, Conn.</i>	289 York st.
Thomas Wheeler Rodman	<i>New Haven, Conn.</i>	165 York st.
Warren Augustus Rooke	<i>Meriden, Conn.</i>	Meriden
Thomas Macdonough Russell	<i>Middletown, Conn.</i>	65 Grove st.
Ely Morgan Talcott Ryder	<i>Danbury, Conn.</i>	145 Greene st.
John Law Sands	<i>Cambridge, Mass.</i>	146 College st.
Homer Earle Sargent, Jr.	<i>Chicago, Ill.</i>	137 Wall st.
Horace Reynolds Shares	<i>New Haven, Conn.</i>	29 Eld st.
Eugene Hammond Sherman	<i>Utica, N. Y.</i>	127 College st.
Albert Price Simmonds	<i>Plainfield, N. J.</i>	127 College st.
Thomas George Sloan	<i>New Haven, Conn.</i>	38 High st.
Frank Benjamin Smith	<i>Baltimore, Md.</i>	405 Temple st.
Ernest William Sniffen	<i>Sandy Hook, Conn.</i>	76 Howe st.
Joseph Speidel, Jr.	<i>Wheeling, W. Va.</i>	130 Wall st.
William Alexander Stark	<i>Ansonia, Conn.</i>	Ansonia
Lazarus Denison Stearns	<i>Wilkes-Barré, Pa.</i>	114 High st.
Clifford Ives Stoddard	<i>Milford, Conn.</i>	792 Chapel st.
John Lowe Stoddard	<i>Riverdale, N. Y.</i>	391 Temple st.
Henry Griffin Strong	<i>Rochester, N. Y.</i>	54 Wall st.
James Boorman Strong	<i>New York City</i>	395 Temple st.
Clarence Baker Sturges	<i>Scranton, Pa.</i>	40 Trumbull st.
Howard Haines Sutherland	<i>Clinton, Conn.</i>	159 Orange st.
Frederick Mills Terrill	<i>New Hartford, Conn.</i>	37 College st.

Josiah Copley Thaw	<i>Pittsburgh, Pa.</i>	64 High st.
Willis Miller Thayer	<i>Enfield, Conn.</i>	37 Lynwood st.
Augustus Porter Thompson	<i>Honesdale, Pa.</i>	107 Wall st.
Percival Thompson	<i>Chicago, Ill.</i>	391 Temple st.
Frederick Chaffee Thrall	<i>Detroit, Mich.</i>	128 High st.
Joseph Henry Tracy	<i>Waterbury, Conn.</i>	55 Prospect st.
Robert Frederic Troescher	<i>New York City</i>	405 Temple st.
Cecil Huntington Trowbridge	<i>Milford, Conn.</i>	145 College st.
Thomas Horler Truslow	<i>Summit, N. J.</i>	152 Grove st.
Harry Edward Tuttle	<i>West Haven, Conn.</i>	192 Grove st.
Eugene Bertrand Underwood	<i>New Haven, Conn.</i>	253 Columbus av.
Louis Edward Underwood	<i>Tolland, Conn.</i>	551 Orange st.
Ernest Stiles Vinten	<i>New Haven, Conn.</i>	89 Pearl st.
Irving Gould Waite	<i>Baldwinville, Mass.</i>	22 Trumbull st.
Julius deMun Walsh	<i>Washington, D. C.</i>	77 Grove st.
Charles Bennett Warner	<i>West Haven, Conn.</i>	192 Grove st.
Charles Hyde Warren	<i>Watertown, Conn.</i>	527 Orange st.
John Mills Warren	<i>Bridgeport, Conn.</i>	128 High st.
Myron Perry Warren	<i>New York City</i>	409 Temple st.
Harold Curtis Webster	<i>Cleveland, O.</i>	133 College st.
James Hart Welch, Jr.	<i>Forestville, Conn.</i>	111 Grove st.
Thomas Henry West, Jr.	<i>St. Louis, Mo.</i>	395 Temple st.
Lawrence Whitney	<i>New Haven, Conn.</i>	405 Whitney av.
Albert Reed Williams	<i>Lake Geneva, Wisc.</i>	395 Temple st.
Roger Stout Woodhull	<i>Dayton, O.</i>	145 College st.
John Harkness Wray, Jr.	<i>New York City</i>	59 Wall st.
Paul Darling Wright	<i>Westfield, N. Y.</i>	248 York st.
Ralph Glenn Wright	<i>Westfield, N. Y.</i>	248 York st.
Ross Pier Wright	<i>Westfield, N. Y.</i>	248 York st.
Augustus Oothout Zabriskie	<i>New York City</i>	99 Wall st.

SPECIAL STUDENTS NOT CANDIDATES FOR A DEGREE

Joseph Milton Boies	<i>Scranton, Pa.</i>	139 Elm st.
William Bingham Brayton	<i>Cleveland, O.</i>	43 College st.
Charles Lyman Brinsmade	<i>Brooklyn, N. Y.</i>	226 Crown st.
Edward Manning Brown	<i>Springfield, Mass.</i>	213 Crown st.
Edward Merriam Griffith	<i>New York City</i>	43 College st.
George Arthur Hadsell	<i>Plainville, Conn.</i>	206 Crown st.
Nathaniel Parker Hill	<i>Montgomery, N. Y.</i>	125 High st.
Joseph Frederic Jackson	<i>New Haven, Conn.</i>	15 Fillmore st.
Thomas Kernan	<i>Poquonock, Conn.</i>	67 Ashmun st.
Stephen Arthur Krom	<i>Plainfield, N. J.</i>	71 Dwight st.
John Henry McCullagh	<i>New York City</i>	22 College st.
Harold Baxter Rees	<i>Stamford, Conn.</i>	126 Wall st.
Frank Nicholson Schwartz	<i>Pittsburgh, Pa.</i>	109 Wall st.
Edward Franklin Weed	<i>South Norwalk, Conn.</i>	S. Norwalk
Ira Cartwright Wetherill	<i>South Bethlehem, Pa.</i>	335 Orange st.
Myer Wolodarsky	<i>New Haven, Conn.</i>	167 Kimberly av.

SPECIAL STUDENTS, 16

SUMMARY

GRADUATES	42
SENIORS	140
JUNIORS	175
FRESHMEN	228
SPECIAL STUDENTS	16
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SCHOOL OF THE FINE ARTS

Harry Lee Barker	<i>Hartford, Conn.</i>	Hartford
George Henry Berry	<i>Shelton, Conn.</i>	Shelton
Robert Henry Bonner	<i>New Haven, Conn.</i>	37 Eaton st.
Charles Lyman Brinsmade	<i>Brooklyn, N. Y.</i>	226 Crown st.
Grace Bronson	<i>New Haven, Conn.</i>	571 Elm st.
Frank Carew	<i>New Haven, Conn.</i>	82 Wall st.
Geraldine Woolsey Carmalt	<i>New Haven, Conn.</i>	87 Elm st.
Gertrude Mary Craig	<i>New Haven, Conn.</i>	16 Gill st.
Mary Evans	<i>New Haven, Conn.</i>	32 Trumbull st.
Mary Foote	<i>Guilford, Conn.</i>	14 Mansfield st.
Mary Williams Fowler	<i>New Haven, Conn.</i>	101 Humphrey st.
Charles Henry Hall	<i>Brooklyn, N. Y.</i>	252 L.
Ida L. Henry	<i>New Haven, Conn.</i>	9 Audubon st.
Marie Miles Judson	<i>Stratford, Conn.</i>	Stratford
George Henry Langzettel	<i>New Haven, Conn.</i>	725 Whitney av.
Edith Louise Leland	<i>Middlefield, Conn.</i>	Middlefield
Dwight Milton Lewis	<i>New Haven, Conn.</i>	438 George st.
Mabel McIntosh	<i>New Haven, Conn.</i>	321 W. Water st.
Henrietta Goodman Mansfield	<i>New Haven, Conn.</i>	12 Academy st.
Margaret Mather	<i>New Haven Conn.</i>	19 Warren pl.
Jerome Alfred Clinton Morse	<i>Brooklyn, N. Y.</i>	22 College st.
Charles George Osgood	<i>Wellsborough, Pa.</i>	190 c.
Mary Tomlinson Potter	<i>New Haven, Conn.</i>	23 Brown st.
Joseph Wickham Roe	<i>Brooklyn, N. Y.</i>	37 College st.
Elnora Dickson Rogers	<i>New Haven, Conn.</i>	67 Lafayette st.
Celeste Gilman Sawtelle	<i>San Francisco, Cal.</i>	251 Crown st.
Mary Thompson	<i>New Haven, Conn.</i>	14 Mansfield st.
Edith Champion Trowbridge	<i>New Haven, Conn.</i>	353 Temple st.
Edith Dean Weir	<i>New Haven, Conn.</i>	58 Trumbull st.
Daniel Urquhart Wilcox	<i>New Haven, Conn.</i>	46 York sq.

ART STUDENTS, 30

Art Students,	30
Elective Class from the Academical Department,	22
Freshman Class from the Scientific School,	228
Total,	280

MUSICAL DEPARTMENT

August Frederick Fehlandt, B.A. } University of Wisconsin 1891	<i>Madison, Wisc.</i>	109 W. D.
Harry Linwood Hartwell, B.A. } Boston University 1892	<i>Newton Highlands, Mass.</i>	121 W. D.
Harry Benjamin Jepson, B.A. } Yale University 1893	<i>New Haven, Conn.</i>	30 Grove st.
Burton Emerson Leavitt, B.A. } Yale University 1893	<i>Putnam, Conn.</i>	
Virginia Brisac Moore	<i>Stratford, Conn.</i>	Stratford
C. Edward Moulthrop	<i>West Haven, Conn.</i>	West Haven
Edward Walker Pease, B.A. } Yale University 1892	<i>Tolland, Conn.</i>	117 W. D.
Henry Pell Pierrepont	<i>New Haven, Conn.</i>	262 York st.
Robert John Thomson	<i>Baltimore, Md.</i>	17 E. D.
STUDENTS, 9		

In addition to the above, 21 students from the undergraduate Academic and Scientific Departments are receiving regular instruction in Music.

DEPARTMENT OF THEOLOGY

(YALE DIVINITY SCHOOL)

RESIDENT LICENTIATES

ATTENDING LECTURES

Frank Willis Horton, B.A. } Hiram College 1889	<i>Buffalo, N. Y.</i>	80 Ward st.
Robert Treadwell Osgood, B.A. } Harvard University 1887	<i>Cambridge, Mass.</i>	122 W. D.

RESIDENT LICENTIATES, 2

GRADUATE CLASS

PURSUING FOURTH YEAR STUDIES

Arthur John Arn, B.A. } Yale University 1887, B.D. Yale University 1892	<i>Kansas City, Kansas</i>	118 W. D.
Edward Perkins Ayer, } Amherst College	<i>Brookfield, Mass.</i>	22 E. D.
William Watson Breckenridge, B.A. } Wheaton College 1887, B.D. Oberlin College 1891	<i>New Windsor, Ill.</i>	110 W. D.
Edward Shepard Bromer, B.A. } Ursinus College 1890, B.D. Yale University 1893	<i>Schwenksville, Pa.</i>	23 E. D.
Charles Franklin Clarke, B.A. } Yale University 1886, B.D. Yale University 1889	<i>Whitneyville, Conn.</i>	Whitneyville
Warren Stark Danley, B.A. } Waynesburg College 1872, D.D. Waynesburg College 1887	<i>Kansas City, Mo.</i>	56 W. D.
Albert Putnam Davis, M.A. } Amherst College 1890, B.D. Yale University 1893	<i>Dorchester, Mass.</i>	24 E. D.
Frank Butler Doane, B.A. } Amherst College 1890, B.D. Yale University 1893	<i>Hawley, Mass.</i>	23 E. D.
Charles Edward Ewing, B.A. } Amherst College 1890, B.D. Yale University 1893	<i>Danvers, Mass.</i>	19 E. D.
George Henry Flint, M.A. } Williams College 1890, B.D. Yale University 1893	<i>Lincoln, Mass.</i>	25 E. D.

Charles Edward Harris, B.A. } Yale University 1885, M.A. Columbia College 1886, B.D. Yale University 1893		
Fosdick Beach Harrison, B.A. } Amherst College 1890, B.D. Yale University 1893		
Kevorg Harutune Kazanjian, B.D. } Yale University 1891		
Edward Everett Keedy, B.A. } Lebanon Valley College 1889, B.D. Yale University 1893		
John Lincoln Keedy, B.A. } Lebanon Valley Coll 1889, B.D. Yale University 1893		
Warren Joseph Moulton, M.A. } Amherst College 1893, B.D. Yale University 1893		
Frank Curtiss Putnam, B.A. } Amherst College 1890, B.D. Yale University 1893		
Harry Elmer Small, B.A. } Amherst College 1890, B.D. Yale University 1893		
Wilson Reed Stewart, M.A. } Wittenberg College 1893, B.D. Yale University 1893		
Dwight Clinton Stone, B.D. } Yale University 1887		
William Michael Zumbro, B.A. } Western College 1888, M.A. University Mich. 1889, B.D. Yale University 1893		
	<i>Stafford Springs, Conn.</i>	30 E. D.
	<i>Bethlehem, Conn.</i>	13 E. D.
	<i>Aintab, Turkey</i>	87 W. D.
	<i>Rohrersville, Md.</i>	29 E. D.
	<i>Rohrersville, Md.</i>	29 E. D.
	<i>Center Sandwich, N. H.</i>	38 E. D.
	<i>Buffalo, N. Y.</i>	99 W. D.
	<i>North Guilford, Conn.</i>	27 E. D.
	<i>Bucyrus, O.</i>	42 E. D.
	<i>Canaan, Conn.</i>	89 W. D.
	<i>Purdin, Mo.</i>	40 E. D.

GRADUATE STUDENTS, 21

SENIOR CLASS

Henry Cartledge, } Boston University }		<i>New Haven, Conn.</i>	11 Foote st.
William Watt Dornan		<i>Somerville, Mass.</i>	53 E. D.
Hugh Shaw Dougall, B.A. } Victoria University 1892		<i>Hallville, Ont., Canada</i>	49 E. D.
William Llawdaog Evans, } Carmarthen College }		<i>Alltevalis, Wales</i>	97 W. D.
Orishatukeh Faduma, } University of London }		<i>Waterloo, Sierra Leone</i>	45 E. D.
August Frederick Fehlandt, B.A. } University of Wisconsin, 1891		<i>Madison, Wisc.</i>	109 W. D.
Albert Louis Grein, PH.B. } Oberlin College 1891		<i>Buffalo, N. Y.</i>	81 W. D.

Jacob Lewis Hartsock, { Johns Hopkins Univ.	Washington, D. C.	73 W. D.
Charles Stillman Haynes, B.A. { Williams College 1891	Fitchburg, Mass.	32 E. D.
Samuel George Heckman, B. A. { University of Cincinnati 1891	Cincinnati, O.	28 E. D.
Godfrey August Holzinger, B.A. { Olivet College 1887	Springdale, Col.	94 W. D.
William Fleetwood Ireland, B.A. { Oberlin College 1891	Natal, S. Africa	112 W. D.
Clifford Benjamin Keenleyside, B.A. { Victoria University 1892	London, Canada	49 E. D.
Harry William Landfear, B.A. { Amherst College 1890	Glastonbury, Conn.	95 W. D.
Edwin Jones Lewis, B.A. { Marietta College 1891	Alliance, O.	33 E. D.
Frederick Nye Lindsay, B.A. { Yale University 1889	Troy, N. Y.	8 E. D.
Abraham Lincoln McClelland, B.A. { Oberlin College 1889	Brandon, Wisc.	111 W. D.
Sandford Edwin Marshall, B.A. { Victoria University 1892	St. Catharines, Ont., Canada	48 E. D.
Harry Chamberlain Meserve	Lowell, Mass.	108 W. D.
John Winslow Norris, B.A. { Univ. Vermont 1891	Albany, Vt.	103 W. D.
Frank Park, B.A. { State Univ. Iowa 1889	Viola, Ill.	20 E. D.
Carroll Perry, B.A. { Williams College 1890	Williamstown, Mass.	114 W. D.
Aurelian Post, B.A. { Hamilton College 1891	Clinton, N. Y.	113 W. D.
Henry Hugh Proctor, B.A. { Fisk University 1891	Fayetteville, Tenn.	18 E. D.
Charles Edwin Reeves, { Williams College	New London, Conn.	102 W. D.
Anders Sandbo, B.A. { St. Olaf College 1890	Hills, Minn.	104 W. D.
Gilbert Augustus Shaw	Middletown, N. Y.	53 E. D.
James Alexander Solandt, PH.B. { Oberlin College 1891	Inverness, Quebec, Canada	44 E. D.
Charles William Thomas Strasser, B.A. { Muhlenberg College 1891	Allentown, Pa.	77 Howe st.
Robert John Thomson, { Johns Hopkins University	Baltimore, Md.	17 E. D.
William Marsh Tinker, B.A. { Thiel College 1887	Sharon, Pa.	67 W. D.
George Durand Wilder, B.A. { Oberlin College 1891	Huron, S. Dakota	44 E. D.

MIDDLE CLASS

William Thurston Brown, B.A. { Yale University 1890	Somerville, Conn.	36 E. D.
Samuel MacIntosh Cathcart	Northfield, Mass.	58 Mansfield st.
John Wesley Dickson, B. A. { Otterbein University 1892	Columbus, O.	26 E. D.
Evore Evans, { Colorado College	Kingston, Pa.	88 W. D.
Samuel John Evers, B.A. { Lebanon Valley College 1891	Hagerstown, Md.	54 E. D.
Henry Thatcher Fowler, B.A. { Yale University 1890	Poughkeepsie, N. Y.	Dwight Hall
Everett Dwight Francis, B.A. { Yale University 1892	West Hartford, Conn.	14 E. D.
Lathrop Campbell Grant	Charleston, S. C.	34 E. D.
Harry Linwood Hartwell, B.A. { Boston University 1892	Newton Highlands, Mass.	121 W. D.
John Hans Hjetland, { Washburn College	Leona, Kansas	43 E. D.
Burris Atkins Jenkins, B.A. { Bethany College 1891	Kansas City, Mo.	78 W. D.
Harry Woodruff Johnson, B.A. { Williams College 1891	Washington, D. C.	105 W. D.
John Owen Jones	Dublin, Ireland	2 E. D.
Milton Royce Kerr, B.S. { Cornell University 1884	Mongaup Valley, N. Y.	36 E. D.
Joseph Benjamin Kettle, B.A. { Colorado College 1892	Murray, N. Y.	96 W. D.
Frank Oscar Krause, B.L. { Carleton College 1892	Northfield, Minn.	119 W. D.
Adam Ruth Lutz, M.A. { Franklin and Marshall College 1889	Strasburg, Pa.	26 E. D.
Francis Miner Moody, B.A. { Yale University 1892	New Haven, Conn.	31 E. D.
Edward Walker Pease, B.A. { Yale University 1892	Tolland, Conn.	117 W. D.
John Wesley Rice, B.A. { Harvard University 1891	Rockland, Mass.	98 W. D.
Olaus Thorleivson Rikansrud, B.A. { Luther College 1888	Elon, Iowa	51 E. D.
Wallace Eugene Rollins, B.A. { Univ. North Carolina 1892	Asheville, N. C.	37 E. D.
Edward Stevens Sanborn, B.A. { Yale University 1892	Kingston, N. H.	31 E. D.
Thomas Melvaughn Singer, B.A. { Bates College 1890	Lewiston, Me.	79 W. D.
Emmet Charles Sult, B.A. { Heidelberg Univ. 1891	New Salem, O.	41 E. D.

Charles Snow Thayer, B.A. { Amherst College 1886	Westfield, Mass.	80 W. D.
John Barron Toomay, B.A. { Otterbein University 1893	Westerville, O.	194 Whalley av.
Corydon Curtiss Tyler	Brooklyn, N. Y.	83 W. D.
Hiram VanKirk, B.A. { Hiram College 1892	Buffalo, N. Y.	84 W. D.
William Hiram Waggoner, B.A. { Eureka College 1892	Washington C. H., O.	119 W. D.
Parley Paul Womer, { Ohio Wesleyan University	Reynoldsville, Pa.	82 W. D.
Calvin Daniel Yost, B.A. { Ursinus College 1891	McKeansburgh, Pa.	41 E. D.
Sherman Pomeroy Young, M.A. { McKendree College 1890	Carbondale, Ill.	52 E. D.

MIDDLE CLASS, 33

JUNIOR CLASS

Lynn Paddock Armstrong, B.A. { Williams College 1893	Bennington, Vt.	91 W. D.
Thomas Nelson Baker, B.A. { Boston University 1893	Malden, Mass.	50 E. D.
Arthur Granville Beach, B.A. { Marietta College 1891	Cincinnati, O.	46 E. D.
Arie Binkhorst, B.A. { Olivet College 1893	Kalamazoo, Mich.	76 W. D.
John Edward Borncamp, B.A. { University of Minnesota 1893	Minneapolis, Minn.	21 E. D.
George Aldrich Bushee, B.A. { Williams College 1892	Wallingford, Vt.	92 W. D.
Harry Nesmith Cameron, { Ohio Wesleyan University	Pittsburgh, Pa.	107 W. D.
Andrew Campbell, PH.B. { Boston University 1893	Cambridgeport, Mass.	106 W. D.
Edward Jasper Converse, B.A. { Ohio State University 1886	Columbus, O.	123 W. D.
Morgan Daniel, { Bala-Bangor College	Glanaman, Wales	58 W. D.
James Davies, { Carmarthen College	Bwlchyronen, S. Wales	57 W. D.
John Davies, { Carmarthen College	Cwmdufn, S. Wales	57 W. D.
John Deans, Jr., { Glasgow University	Danbury, Conn.	120 W. D.
Benjamin Alfred Dumm, M.A. { Western Md. College 1889	Union Bridge, Md.	92 W. D.

Percy Harold Epler, B.A. }	<i>Jacksonville, Ill.</i>	47 E. D.
Illinois College 1892		
Edward Henry Eppens	<i>Canal Dover, O.</i>	100 W. D.
Charles Kingsley Fankhauser, B.A. }	<i>Round Bottom, O.</i>	46 E. D.
Marietta College 1893		
Harry Oliver Hannum, B.A. }	<i>Minneapolis, Minn.</i>	21 E. D.
Univ. Minnesota 1893		
Thaddeus Clarence Henderson, B.A. }	<i>Havana, N. Y.</i>	76 W. D.
Cornell University 1893		
Hugh Jones, }	<i>Bala, Wales</i>	55 W. D.
Bala-Bangor College }		
John Hovey Kimball, B.A. }	<i>Nashua, N. H.</i>	107 W. D.
Beloit College 1893		
Kumao Minami, B.L. }	<i>Osaka, Japan</i>	70 W. D.
Olivet College 1892		
Edwin LaForest Noble, B.A. }	<i>Chelsea, Mass.</i>	106 W. D.
Boston University 1893		
Evarts Wilson Pond, B.A. }	<i>New Haven, Conn.</i>	59 W. D.
Dartmouth College 1891		
Wallace Martin Short, B.A. }	<i>College Springs, Iowa</i>	75 W. D.
Beloit College 1893		
Walter Bullard Street, B.A. }	<i>Lee, Mass.</i>	91 W. D.
Williams College 1892		
John Evans Thomas, }	<i>Blaenwaun, Wales</i>	58 W. D.
Bala-Bangor College }		
Charles Nicholas Thorp, B.A. }	<i>Oxford, N. Y.</i>	39 E. D.
Amherst College 1891		
William Wood Wallace, B.A. }	<i>Middletown, N. Y.</i>	93 W. D.
Hamilton College 1890		
Edgar Couch Wheeler, PH.B. }	<i>Tacoma, Washington</i>	90 W. D.
Beloit College 1893		
James Williams, }	<i>Carmarthen, Wales</i>	55 W. D.
Carmarthen College }		

JUNIOR CLASS, 31

SUMMARY

RESIDENT LICENTIATES,	2
GRADUATE CLASS,	21
SENIOR CLASS,	32
MIDDLE CLASS,	33
JUNIOR CLASS,	31
TOTAL,	119

DEPARTMENT OF MEDICINE

(YALE MEDICAL SCHOOL)

GRADUATE STUDENTS

Alejandro Garcia, M.D. }	<i>Cartago, Costa Rica</i>
Yale University 1893 }	318 Orange st.
Frederick Benoni Sweet, M.D. }	<i>Lebanon, Conn. N. H. Hospital</i>
Yale University 1893 }	GRADUATE CLASS, 2

SENIOR CLASS

Ernst Herman Arnold	<i>New Haven, Conn. 167 West st.</i>
Jerome Samuel Bissell	<i>W. Morris, Conn. 343 George st.</i>
Charles Porter Botsford	<i>East Berlin, Conn. 44 Lyon st.</i>
Charles Ellsworth Bush	<i>Niantic, Conn. 567 Howard av.</i>
Charles Franklin Craig	<i>Danbury, Conn. 317 George st.</i>
Simon Philip Goodhart, PH.B. }	<i>New Haven, Conn.</i>
Yale University 1892 }	361 George st.
Miles Remond Gordon	<i>Chelsea, Mass. 430 Orchard st.</i>
Edward Lyman Kingman	<i>Bridgeport, Conn. 117 Park st.</i>
Edward Brooks Marston	<i>Bath, Me. 27 Home pl.</i>
Robert Orton Moody, B.S. }	<i>New Haven, Conn.</i>
Cornell University 1891 }	Fair Haven Heights
James Albert Moore, B.A. }	<i>New Haven, Conn.</i>
Yale University 1892 }	120 Dwight st.
Edward Seymour Moulton, B.A. }	<i>Oberlin, O. 233 York st.</i>
Oberlin College 1891 }	<i>New Haven, Conn. 76 Wooster st.</i>
Frederick Noyes Sperry	<i>New Haven, Conn. 167 Wallace st.</i>
William Francis Verdi	<i>East Hartford, Conn.</i>
Abram Case Williams, B.A. }	120 Dwight st.
Yale University 1892 }	<i>Hamilton, Canada Kent Laboratory</i>
Thomas Herbert Young	SENIOR CLASS, 16

MIDDLE CLASS

Charles Gardner Child, Jr.	<i>Montclair, N. J. 371 Crown st.</i>
James Henry Joseph Flynn	<i>New Haven, Conn. 159 Elliott st.</i>
John Joseph Gilhuley	<i>Bridgeport, Conn. Bridgeport</i>
Albert Lewis House	<i>Milford, Conn. Milford</i>

John Lawrence Kelly, B.A. }	<i>New Britain, Conn.</i>
Coll. of the Holy Cross 1892 }	68 George st.
Vertner Kenerson, M.A. }	<i>New Haven, Conn.</i>
Yale University 1893 }	1018 Chapel st.
Fürchtegott Forst Richard Oertel	<i>New Haven, Conn.</i> 31 York sq.
Harry Breed Rising	<i>S. Glastonbury, Conn.</i> 391 George st.
Myron Potter Robinson	<i>Glastonbury, Conn.</i> 347 York st.
William Joseph Sheehan, B.S. }	<i>West Haven, Conn.</i> West Haven
Manhattan College 1892 }	
Louis Mayer Smirnow	<i>New Haven, Conn.</i> 286 Wooster st.
Harry White Underhill	<i>Danbury, Conn.</i> 371 Crown st.
Stiles Henry Whiting	<i>Bridgeport, Conn.</i> Bridgeport
	MIDDLE CLASS, 13

JUNIOR CLASS

Larmon Winthrop Abbott	<i>Bridgeport, Conn.</i> Bridgeport
Willis Howard Alling	<i>New Haven, Conn.</i> 310 Orange st.
Charles Joseph Bartlett, B.A. }	<i>New Haven, Conn.</i>
Yale University 1892 }	387 George st.
Theodore Edward Beard, Jr.	<i>Shelton, Conn.</i> 516 Chapel st.
Frederic Courtney Bishop, B.A. }	<i>Bridgeport, Conn.</i> 16 Gill st.
Yale University 1892 }	
Orland Rossini Blair, PH.B. }	<i>New Britain, Conn.</i> 347 York st.
Yale University 1893 }	
Arthur Stone Brackett, B.A. }	<i>New Haven, Conn.</i> 16 Gill st.
Yale University 1892 }	
John Lucius Bradley	<i>New Haven, Conn.</i> 29 Whalley av.
Joseph Bradford Brocksieper	<i>New Haven, Conn.</i> 462 Chapel st.
Hugh Francis Cook	<i>Bridgeport, Conn.</i> Bridgeport
Joseph Anthony Cooke	<i>New Haven, Conn.</i> 27 Home pl.
William Alexander Doctor	<i>Ottawa, Canada</i> 1241 Chapel st.
Frederick Elliot Dudley	<i>New Haven, Conn.</i> 230 Lloyd st.
Charles Childs Gildersleeve	<i>E. Woodstock, Conn.</i> 49 Dixwell av.
Michael Henry Richard Gill	<i>Southington, Conn.</i> 49 Dixwell av.
Louis Michael Gompertz	<i>New Haven, Conn.</i> 43 Artizan st.
Irvin Granniss	<i>Fair Haven, Conn.</i> Fair Haven
Samuel Mowbry Hammond, PH.B. }	<i>Torrington, Conn.</i> 378 Crown st.
Yale University 1893 }	
Harry Hall Hartung	<i>New Haven, Conn.</i> 259 St. Ronan st.
Charles Werden Holbrook, M.A. }	<i>Easthampton, Mass.</i>
Amherst College 1893 }	2 Audubon st.
Louis Erwin Jacobs, LL.B. }	<i>New Haven, Conn.</i> 12 Day st.
Yale University 1890 }	
Milo Hotchkiss Jones	<i>Greenwich, Conn.</i> 219 York st.

Clifford Walcott Kellogg	<i>New Haven, Conn.</i> 100 York sq.
William Sanford Kingsbury, B.S. }	<i>Glastonbury, Conn.</i> 381 Crown st.
Trinity College 1891 }	
Elmer Arthur Lawbaugh, PH.B. }	<i>Opechee, Mich.</i> 339 George st.
Yale University 1893 }	
Maximilian Lawrence Loeb	<i>New Haven, Conn.</i> 200 Franklin st.
Frank John McGuire	<i>New Haven, Conn.</i> 244 Ferry st.
Gilbert Totten McMaster	<i>New Haven, Conn.</i> 6 High st.
James Stephen Maher, PH.B. }	<i>New Haven, Conn.</i> 203 East st.
Yale University 1892 }	
Frank Spicer Miner	<i>New Haven, Conn.</i> 28 Dwight st.
William Henry Murphy, B.A. }	<i>Southville, Mass.</i> 4 Garden st.
Yale University 1893 }	
Alfred Goldstein Nadler, B.A. }	<i>New Haven, Conn.</i> 122 Olive st.
Yale University 1893 }	
Adolph Jacob Osterman	<i>New Haven, Conn.</i> 34 William st.
Clifford Seeley Page	<i>Danbury, Conn.</i> 371 Crown st.
Henry Pell Pierrepont	<i>New Haven, Conn.</i> 262 York st.
John Aloysius Poland	<i>Bridgeport, Conn.</i> Bridgeport
Edmund Lewis Saunders	<i>Hartford, Conn.</i> 383 George st.
Michael Joseph Sheahan	<i>New Haven, Conn.</i> 361 Blatchley av.
Egbert Livingston Smith	<i>Milford, Conn.</i> Milford
Seymour Leopold Spier	<i>New Haven, Conn.</i> 145 Bradley st.
Lucius Harrison Stewart	<i>Rutland, Vt.</i> 1157 Chapel st.
Albert Augustus Tanyane	<i>New Haven, Conn.</i> 43 South st.
Hugh Currie Thompson	<i>Buffalo, N. Y.</i> 713 Chapel st.
William Myron Weaver	<i>Hartford, Conn.</i> 6 Elm st.
	JUNIOR CLASS, 44

SPECIAL STUDENTS

John Frederick Dutton	<i>Philadelphia, Pa.</i> 53 Goffe st.
Theodore Elmore Eggleston	<i>New Haven, Conn.</i> 126 Spring st.
William Henry FitzGerald	<i>Middletown, Conn.</i> Middletown
John Edward Herrity	<i>West Haven, Conn.</i> 102 Ward st.
Edward Francis McIntosh	<i>New Haven, Conn.</i> 53 Lake pl.
	SPECIAL STUDENTS, 5

SUMMARY

GRADUATES	2
SENIOR CLASS	16
MIDDLE CLASS	13
JUNIOR CLASS	44
SPECIAL STUDENTS	5
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DEPARTMENT OF LAW

(YALE LAW SCHOOL)

GRADUATE STUDENTS

Roger Sherman Baldwin, B.A. } Yale University 1890, LL.B. Yale Univ. 1893, Attorney at Law }	<i>New Haven, Conn.</i> 69 Church st.
Edward Grant Buckland, B.A. } Washburn College 1887, LL.B. Yale Univ. 1889, Attorney at Law }	<i>New Haven, Conn.</i> 419 Temple st.
Ernest Wells Campbell, LL.B. } Yale University 1893 }	<i>Litchfield, Minn.</i> 68 Whalley av.
Harry Goodyear Day, PH.B. } Yale University 1890, LL.B. Yale Univ. 1893, Attorney at Law }	<i>Seymour, Conn.</i> 419 Temple st.
James Dudley Dewell, Jr., LL.B. } Yale University 1893 }	<i>New Haven, Conn.</i> 400 Orange st.
Robert Miles Gignoux, LL.B. } Yale University 1893 }	<i>Monroe, N. Y.</i> 71 W. D.
Arthur Collins Graves, B.A. } Trinity College 1891, LL.B. Yale Univ. 1893, Attorney at Law }	<i>New Haven, Conn.</i> 101 Grove st.
William Angus Hamilton, LL.B. } Cornell University 1889, B.A. Harvard University 1892, M.L. Yale University 1893 }	<i>New York City</i> 928 Chapel st.
George Edwin Joseph, LL.B. } Univ. City of New York 1892 }	<i>Warwick, N. Y.</i> Warwick
William Wallace Phelps, LL.B. } University of Michigan 1890, M.L. Yale Univ. 1891, Attorney at Law }	<i>Red Wing, Minn.</i> 378 George st.
Richard Frank Price, PH.B. } Iowa State University 1888, LL.B. Iowa State University 1889, M.L. Yale Univ. 1893, Attorney at Law }	<i>Clinton, Iowa</i> 136 Howe st.
John Wilber Roby, LL.B. } Yale Univ. 1891, Attorney at Law }	<i>Delphos, O.</i> 378 George st.
Kennosuke Sugita, } M.L. Univ. of Michigan, 1893 }	<i>Gifuken, Japan</i> 438 Elm st.
John Quillin Tilson, B.A. } Yale University 1891, LL.B. Yale University 1893 }	<i>Clear Branch, Tenn.</i> I TR.
James Parsons Woodruff, B.A. } Amherst College 1891, LL.B. Yale Univ. 1893, Attorney at Law }	<i>Litchfield, Conn.</i> 419 Temple st.

SENIOR CLASS

William Roderick Adams, Jr.	<i>Bloomfield, Conn.</i> , 1241 Chapel st.
Frederick Lawton Averill	<i>New Haven, Conn.</i> 23 Prince st.
Alfred Carlton Baldwin	<i>Beacon Falls, Conn.</i> 65 York sq.
William Brander Barker	<i>New Haven, Conn.</i> Westville
Gabriel Henry Baum, B.A. } Univ. of S. C. 1892, LL.B. Univ. S. C. 1893, Attorney at Law }	<i>Camden, S. C.</i> 212 Wooster st.
Edward Boltwood, B.A. } Yale University 1892 }	<i>Pittsfield, Mass.</i> 217 York st.
Charles Sterling Bonsall, B.A. } University of Pennsylvania 1889 }	<i>Chicago, Ill.</i> Aldrich House
William Bradford Bosley, B.A. } Yale University 1892 }	<i>New Haven, Conn.</i> 43 Dwight st.
Herbert Ovid Bowers, B.A. } Yale University 1892 }	<i>Manchester, Conn.</i> 120 Dwight st.
George Preston Breckenridge	<i>St. Louis, Mo.</i> 195 Wooster st.
Edward Linus Brennan	<i>New Haven, Conn.</i> 179 Franklin st.
Arthur Taylor Brown, B.A. } Bowdoin College 1891 }	<i>Peabody, Mass.</i> 105 Park st.
Robert Barmby Buckham, B.A. } University of Vermont 1889 }	<i>Burlington, Vt.</i> 382 Crown st.
William Warren Buttle, Jr.	<i>Brooklyn, N. Y.</i> 91 Lake pl.
Timothy Francis Callahan	<i>New Haven, Conn.</i> 171 Chapel st.
George Winton Carey	<i>Stratford, Conn.</i> Stratford
John Charles Clark	<i>Cincinnati, O.</i> 250 York st.
Martin Conlon	<i>New Haven, Conn.</i> 116 Nicoll st.
Thomas Drake Coulter	<i>New York City</i> 65 York sq.
Howard Ambrose Couse, B.A. } Alleghany College 1891 }	<i>Tidioute, Pa.</i> 402 Crown st.
Jesse Wallen Crain	<i>Flag Pond, Tenn.</i> 8 Pearl st.
Harry Irwin Cromer	<i>Rapid City, S. D.</i> 2 Audubon st.
William Thaw Denniston	<i>Pittsburgh, Pa.</i> 679 Chapel st.
Rowe Francis Donovan	<i>New Haven, Conn.</i> 123 Day st.
Wheaton Fayette Dowd	<i>Litchfield, Conn.</i> 186 Wooster st.
Harold Riggs Durant	<i>Waterbury, Conn.</i> 128 State st.
Thomas Francis Farrell	<i>Webster, Mass.</i> 106 York sq.
Henry Edgar Ferris	<i>S. Norwalk, Conn.</i> S. Norwalk
Percy Finlay, B.A. } Yale University 1892 }	<i>Memphis, Tenn.</i> 77 W. D.
William Frederick Foster	<i>London, Eng.</i> 190 Mansfield st.
Harrison Barber Freeman, Jr., B.A. } Yale University 1892 }	<i>Hartford, Conn.</i> 86 W. D.
Richard Patrick Freeman, Jr., B.A. } Harvard University 1891 }	<i>New London, Conn.</i> 297 George st.

Pierpont Fuller, B.A. }		<i>New Haven, Conn.</i> 145 Olive st.
Yale University 1892 }		
Jo Clarence Goodman		<i>Columbus, O.</i> 112 Dwight st.
George Fauvel Gouraud		<i>New York City</i> 113 Park st.
Harmon Sheldon Graves, B.A. }		<i>Burlington, Vt.</i> 421 Temple st.
Trinity College 1892 }		
George Elisha Hall		<i>New Haven, Conn.</i> 212 Wooster st.
Judson S. Hall		<i>Meriden, Conn.</i> Meriden
Thomas West Hardy, }		<i>San José, Cal.</i> 2 Audubon st.
Attorney at Law }		
William Stockbridge Haskell, B.A. }		<i>W. Falmouth, Me.</i> 157 York st.
Yale University 1892 }		
George Pickard Hawkes, B.A. }		<i>New Haven, Conn.</i> 629 Chapel st.
Yale University 1891, Attorney at Law }		
Robert Cairns Hayden		<i>Lake George, N. Y.</i> 227 Crown st.
Benjamin Franklin Hedden		<i>New London, Conn.</i> 405 Temple st.
Jo Ralph Jacques		<i>Ottumwa, Iowa</i> 57 Lake pl.
John William Larkin, B.A. }		<i>Birmingham, Conn.</i> 64 Whalley av.
College of the Holy Cross 1892 }		
Josiah Woolf Levy		<i>New Haven, Conn.</i> 90 Elliott st.
Sidney Nelson Lockwood		<i>Bridgeport, Conn.</i> Bridgeport
Edward Joseph Maher		<i>New Haven, Conn.</i> 203 East st.
Loren Pinckney Waldo Marvin, B.A. }		<i>Hartford, Conn.</i> 157 York st.
Yale University 1892 }		
Oliver Perry Merritt		<i>Danbury, Conn.</i> 322 George st.
Walter Scott Miller		<i>Nashville, Tenn.</i> 121 Day st.
George Redington Montgomery, B.A. }		<i>Adana, Turkey</i> 2 Audubon st.
Yale University 1892 }		
Albert Alfonzo Moore, Jr.		<i>Oakland, Cal.</i> 59 Wall st.
Henry Morgan		<i>Brockport, N. Y.</i> 77 W. D.
George Frederick Mull, PH.B. }		<i>Manilla, Ind.</i> 38 Lynwood st.
DePauw University 1893 }		
James Emmerson O'Connor		<i>Chester, Conn.</i> 64 Whalley av.
William Sterling Peters		<i>Brooklyn, N. Y.</i> 250 York st.
George Owen Redington		<i>Syracuse, N. Y.</i> 1090 Chapel st.
Matthew Ambrose Reynolds, B.A. }		<i>New Haven, Conn.</i> 550 Whalley av.
Yale University 1892 }		
Frank Wright Seymour, B.A. }		<i>Winsted, Conn.</i> 63 Grove st.
Yale University 1892 }		
Arnold Watson Sherman		<i>Brooklyn, N. Y.</i> 383 George st.
James Clark Sherwood		<i>Brooklyn, N. Y.</i> 316 Crown st.
Alfred Willoughby Smith		<i>Middlebury, Vt.</i> 383 George st.
Harrison John Teller, B.A. }		<i>Central City, Col.</i> 10 Ashmun st.
Yale University 1892 }		
James France Torrance		<i>Birmingham, Conn.</i> Birmingham
Richard Henry Tyner		<i>Des Moines, Iowa</i> 562 Chapel st.

Charles Weiser, PH.B. }	<i>Hartford, Conn.</i>	124 W. D.
Yale University 1892 }		
James Everett Wheeler, B.A. }	<i>New Haven, Conn.</i>	486 Prospect st.
Yale University 1892 }		
Charles Boardman Whittlesey	<i>New London, Conn.</i>	54 Park st.
Fritz William Whyte	<i>St. Louis, Mo.</i>	65 York sq.
Arthur Hubbard Wood	<i>Pittsfield, Mass.</i>	1179 Chapel st.
Robert Wright	<i>Hartford, Conn.</i>	110 Olive st.

SENIORS, 72

JUNIOR CLASS

Spencer Lionel Adams, B.A. }	<i>Skaneateles, N. Y.</i>	102 N.
Cornell University 1893 }		
Joseph Anderson, B.A. }	<i>Waterbury, Conn.</i>	280½ Elm st.
Yale University 1893 }		
Earliss Palmer Arvine	<i>New Haven, Conn.</i>	1169 Chapel st.
Leroy Delevan Ball, Jr.	<i>Tallahassee, Fla.</i>	Bridgeport
Elmore Sherwood Banks	<i>Southport, Conn.</i>	Southport
Albert Hampton Barclay, B.A. }	<i>Pittsburgh, Pa.</i>	137 Wall st.
Yale University 1891 }		
Alvin Louis Bauman	<i>St. Louis, Mo.</i>	92 York sq.
William Reynolds Begg, B.A. }	<i>Hendersonville, N. C.</i>	1368 Chapel st.
Yale University 1893 }		
John Adam Bellis	<i>Gloversville, N. Y.</i>	118 College st.
Walter Birnie	<i>Springfield, Mass.</i>	59 Wall st.
Frederick Bookman	<i>New York City</i>	427 Temple st.
Thomas Hamilton Breeze, B.A. }	<i>San Francisco, Cal.</i>	1368 Chapel st.
Yale University 1893 }		
Frank James Brown, B.A. }	<i>Warren, Pa.</i>	263 Orange st.
Yale University 1893 }		
Wendell Greene Brownson, B.A. }	<i>Noroton Heights, Conn.</i>	82 Broadway
Yale University 1893 }		
Samuel Joshua Bryant, B.A. }	<i>West Haven, Conn.</i>	West Haven
Oberlin College 1873 }		
B.D. Yale University 1876 }		
Herbert Spencer Bullard, PH.B. }	<i>Hartford, Conn.</i>	314 Crown st.
Yale University 1887 }		
Henry Clarence Burroughs	<i>Bridgeport, Conn.</i>	Bridgeport
Michael John Byrne	<i>New Haven, Conn.</i>	4 Church st.
William Horace Cable	<i>Danbury, Conn.</i>	545 Howard av.
Terrence Francis Carrody	<i>Waterbury, Conn.</i>	111 Grove st.
Thomas Francis Carroll	<i>Towanda, Pa.</i>	29 Home pl.
Hervey Merriam Cheney	<i>Toledo, O.</i>	225 Crown st.
Frederick Chunn	<i>Chaptico, Md.</i>	37 Howe st.

- Dennis William Coleman
 Louis Edgington Conner
 George McCobb Coombs
 William Henry Cox, B.S. }
 Geneva College, Pa., 1893 }
 Charles Thomas Coyle
 John Joseph Cuneo
 Leo Davis
 Raoul d'Arche
 Mason Loomis Decker
 Frank Edward Donnelly, B.A. }
 Yale University 1893 }
 Samuel Solomon Doroff
 Christopher Francis Downey
 Charles Brown Eddy, B.A. }
 Yale University 1893 }
 Henry Horlbeck Ficken, B.A. }
 Yale University 1893 }
 David Edward Fitzgerald
 Joseph Michael Fitzpatrick
 Moris Jerom Forman
 Charles Henry Fuller
 Archibald Graham
 James Stephen Green
 Henry Albert Levi Hall
 Newton Megrue Harris
 Paul Wolcott Harrison
 Walter Douglas Hawkins
 Harry Waterbury Hawley
 Charles Vincent Henry
 Frederick Asbury Hill, B.A. }
 Yale University 1893 }
 Lawrence Whitney Hooker
 William Perry Hopkins
 Joseph Albert Humbor
 Allan Luce Jordan
 Frederick Darwin Keeler
 Daniel Boyle Kelly
 George Lawrence King
 William Lloyd Kitchel, B.A. }
 Yale University 1892 }
 George Washington Klett
 Augustus Emanuel LeBrun
 William Stephens Levens
 Lewis Lyman Loomer
- Cheshire, Conn.* 6 Home pl.
Hartwell, O. 110 Olive st.
New Haven, Conn. 553 Whalley av.
Beaver Falls, Pa. 31 Trumbull st.
New Haven, Conn. 235 Washington st.
S. Norwalk, Conn. 93 Water st.
S. Norwalk, Conn. S. Norwalk
Hartford, Conn. 176 Wooster st.
Denver, Col. 231 York st.
Oxford, N. Y. 120 Dwight st.
New Haven, Conn. 30 George st.
Waterbury, Conn. 413 Orange st.
New Britain, Conn.
 1239 Chapel st.
Charleston, S. C. 1368 Chapel st.
New Haven, Conn. 307 Oak st.
New Haven, Conn. 289 Hamilton st.
New Haven, Conn. 535 George st.
New York City 53 Broadway
Paterson, N. J. 427 Temple st.
Raynham, Mass. 105 Park st.
W. Haven, Conn. 535 George st.
Champaign, Ill. 94 Lake pl.
New Haven, Conn. 89 Trumbull st.
Dover, Del. 671 Chapel st.
Bridgeport, Conn. Bridgeport
Annapolis, Pa. 266 York st.
Norwalk, Conn. Norwalk
Los Angeles, Cal. 63 Grove st.
Bridgeport, Conn. Bridgeport
New Haven, Conn. 174 Hamilton st.
West Winsted, Conn. 19 Lake pl.
Bridgewater, Conn. 94 Lake pl.
Newburyport, Mass. 169 Whalley av.
Meriden, Conn. Meriden
New Haven, Conn.
 419 Temple st.
New Britain, Conn. 29 Sylvan av.
New Haven, Conn. 111 Hill st.
Baker City, Ore. 25 Admiral st.
Birmingham, Conn. Birmingham

Bernard Eugene Lynch	<i>New Haven, Conn.</i> 22 Cottage st.
William Stephen McCaughey	<i>Pawtucket, R. I.</i> 29 Home pl.
Samuel John Marsh	<i>Waterbury, Conn.</i> 2 Audubon st.
Samuel Gilbert Meeker	<i>Green's Farms, Conn.</i> 59 Prospect st.
Melville Bascom Mendell	<i>New Haven, Conn.</i> 17 Lake pl.
William Charles Meyer, B.A. } University of W. Va. 1893 }	<i>Wheeling, W. Va.</i> 73 Lake pl.
Harold Nolely Moore	<i>Ansonia, Conn.</i> Ansonia
Ambrose Irving Moriarty, 2d Lieut. U. S. A., U. S. Mil. Acad. 1887 }	<i>Putnam, Conn.</i> 382 Crown st.
William O'Keefe, Jr.	<i>New Haven, Conn.</i> 76 Nash st.
George Leete Peck, B.A. } Yale University 1893 }	<i>Jamaica, N. Y.</i> West Haven
Howard Birdsey Peck	<i>Birmingham, Conn.</i> Birmingham
John Wayland Peddie	<i>Philadelphia, Pa.</i> 679 Chapel st.
Joseph Strauss Peery	<i>Ogden, Utah</i> 78 Lake pl.
John Newell Piatt	<i>Pittsburgh, Pa.</i> 120 Dwight st.
Charles Elliott Pickett	<i>Seymour, Conn.</i> 153 Church st.
Stuart Eldred Pierson	<i>Minneapolis, Minn.</i> 311 Crown st.
George Foster Sanford	<i>New Haven, Conn.</i> Woodmont
Henry Seymour Sanford, Jr.	<i>New Milford, Conn.</i> 94 Lake pl.
William Randolph Scharton	<i>Aarau, Switzerland</i> 104 Humphrey st.
James Bradley Scott	<i>Newburgh, N. Y.</i> 19 Wall st.
Edward Lawrence Seery	<i>Waterbury, Conn.</i> 413 Orange st.
Benjamin Samuel Slade	<i>New Haven, Conn.</i> 858 State st.
Dutee Roy Smith	<i>Putnam, Conn.</i> 18 School st.
Herbert Knox Smith, B.A. } Yale University 1891 }	<i>Hartford, Conn.</i> 1161 Chapel st.
Daniel John Snyder, B.A. } Heidelberg University, Ohio, 1892 }	<i>Boquet, Pa.</i> 21 Broad st.
Robbins Battell Stoeckel, B.A. } Yale University 1893 }	<i>Norfolk, Conn.</i> 192 York st.
Worthington Smith Telford, PH.B. } Yale University 1892 }	<i>St. Albans, Vt.</i> 425 Temple st.
Edwin Stark Thomas	<i>New Britain, Conn.</i> West Haven
Dexter Edgar Tilley, B.A. } Yale University 1893 }	<i>Springfield, Mass.</i> 109 Temple st.
George Edgar Tilton	<i>San Bernardino, Cal.</i> 43 William st.
Edward Holman Tracy, B.A. } Yale University 1893 }	<i>Topeka, Kan.</i> 97 Olive st.
Charles Milnor Washington, B.A. } Yale University 1893 }	<i>Navesink, N. J.</i> 38 Elm st.
Howard Curtis Webb	<i>New Haven, Conn.</i> 57 Pearl st.
John Harvey Wigginton, B.A. } Yale University 1893 }	<i>Bladensburg, Md.</i> 12 Edgewood av.

Allyn Bancroft Wilmot	<i>Post Mills, Vt.</i>	42 Crown st.
Alfred Charles Woolner, B.A. }	<i>Peoria, Ill.</i>	109 Temple st.
Yale University 1893		
Edward John Woolsey, Jr.	<i>New York City</i>	42 Elm st.
Frank Clement Wright	<i>Portsmouth, N. H.</i>	379 George st.
		JUNIORS, 100

SPECIAL STUDENT

Joseph Almeron Johnson	<i>Rochester, N. Y.</i>	54 Wall st.
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SUMMARY

GRADUATES	15
SENIORS	72
JUNIORS	100
SPECIAL STUDENT	1
							<hr/> 188

SUMMARY OF STUDENTS

DEPARTMENT OF PHILOSOPHY AND THE ARTS:

GRADUATE COURSES	-	-	-	143
YALE COLLEGE	-	-	-	1086
SHEFFIELD SCIENTIFIC SCHOOL	-			601
ART SCHOOL	-	-	-	30
MUSICAL DEPARTMENT	-	-		9
			—	1869
YALE DIVINITY SCHOOL	-	-	-	119
YALE MEDICAL SCHOOL	-	-	-	80
YALE LAW SCHOOL	-	-	-	188
			—	2256
Deduct for names inserted twice	-			54
			—	
TOTAL	-	-	-	2202

DEGREES CONFERRED IN 1893

BACHELORS OF ARTS

Franklin Jones Abbe	Charles Walker Clark
Henry Crosby Allen	John Darling Clarke
John Weston Allen	James Barclay Cooke
Lafon Allen	John Smith Cravens
Joseph Anderson, Jr.	George Mason Creevey
Christopher Lester Avery, Jr.	Beecher Maynard Crouse
John Whitney Avery	Elliot Stone Curtis
James Addison Babbitt	Howard Dorrance Day
Henry Selden Bacon	Robert Kerr Dickerman
Henry Burr Barnes, Jr.	Jonathan Boynton Dill
Ellery Alphonso Bates	Frank Edward Donnelly
Henry Colwell Beadleston	Francis Oswald Dorsey
George Palmer Beebe	Richard Edward Dunham
William Reynolds Begg	Henry Rutherford Dwight
Ralph Birdsall	Winthrop Edwards Dwight
Harry Llewellyn Bixby	William Walton Eccles
Clifford Douglas Bliss	Charles Brown Eddy
William Bradford Boardman	John Percival Edmison
Gerald Mark Borden	Charles Hull Ewing
Charles Wilder Bosworth	Archer Linwood Faxon
Harry Howard Bottome	Charles Jarvis Fay
Howard Sidney Bowns	Irving Bruce Ferguson
Henry Dana Bradley	Henry Horlbeck Ficken
William Edwin Breckenridge	John Howe Field
Thomas Hamilton Breeze	George Ernest Folk, M.A. }
George Justus Briggs	Newberry Coll., S. C., 1892 }
Theodore Louis Bristol	George Mark Foos
Frank James Brown	James Charles Fox
Lawrence Edward Brown	Edson Fessenden Gallaudet
Wendell Greene Brownson	Thomas Augustus Gardiner
Cornelius Sanford Bull	Frank Edwin Gatchel
Ross Burchard	Rufus Macqueen Gibbs
Frank Howard Button	Giles Frederic Goodenough
Harvey Peter Butz, B.A. }	James Edward Grafton
Muhlenberg Coll. 1892 }	Charles Andrew Graham
Nehemiah Candee	Arthur Lawrence Greer
William Thomas Capps	William Henry Hackett
Otho Granford Cartwright	Donald Cameron Haldeman
Thomas Ives Chatfield	Montgomery Hare
Alvah Stone Chisholm	Clarence Clifford Harmstad

Allyn Fitch Harvey
 Frank William Hastings, Jr.
 Logan Hay
 Theodore Woolsey Heermance
 Charles Ralph Hickox, Jr.
 Frederick Asbury Hill
 James Norman Hill
 John Payson Hobbie
 Ben Hodge
 Richard Thayer Holbrook
 John LeRoy Hurlbert
 Shubael Cady Hutchins
 Sherwood Bissell Ives
 Harry Benjamin Jepson
 Jesse Breland Johnson, B.A. {
 Baylor Univ. 1891 }
 Alfred Henry Jones
 Charles Davies Jones
 Riverda Harding Jordan
 Homer Thrall Joy
 Walter Parmelee Judson
 Paul Klimpke
 Adrian VanSinderen Lambert
 Edwin Ruthven Lamson
 William Judson Lamson
 Irwin Boyle Laughlin
 Burton Emerson Leavitt
 Frederick Merwin Lloyd
 Arthur Power Lord
 Irving Phillips Lyon
 William James McKenna
 Stuart McKnight
 William Maffitt
 Arthur James Martin
 George Greene Martin
 Walter Rumsey Marvin
 Edward Thomson Mathison
 Alfred Kindred Merriitt
 Charles William Mills
 George Edward Mills
 Franklin Arthur Moore
 John Stanley Moore
 John Hill Morgan
 Albert Hooker Morse

William Henry Murphy
 Alfred Goldstein Nadler
 Emerson Root Newell
 William Lewis Newton
 William Allan Osborn
 William White Wilson Parker
 Francis Parsons
 George Leete Peck
 Alton William Peirce
 Albert Wells Pettibone, Jr.
 Charles Macauley Pope
 Albert Hutchinson Putney
 Harry Campbell Quintard
 Gerald Laurence Rathbone
 George Howard Rice
 John Trumbull Robinson
 Joseph Roby
 Derby Rogers
 Robert Edwin Rowley
 Louis Barcroft Runk
 Herbert Irving Sackett
 William Clement Scott
 Samuel Scoville, Jr.
 Hubert Merrill Sedgwick
 Albert Judson Shaw
 George Theron Slade
 William Warren Smith
 George Brown Spalding
 Samuel Reid Spencer
 Henry Crosby Stetson
 Robbins Battell Stoeckel
 Wendell Melville Strong
 Carlyle Edgar Sutphen, Jr.
 Noah Haynes Swayne, 2d.
 Moses Taylor
 Wm. Stoutenborough Terriberry
 John Booth Thomas
 Herbert Gorden Thomson
 Dexter Edgar Tilley
 Horace Gates Torbert
 Edward Holman Tracy
 Robert Storer Tracy
 Thomas Cann Trask
 Charles Gallaudet Trumbull

Harry Selden Vaile	Webster Wheelock
Wm. Henry Vanderbilt (<i>post obit.</i>)	Albert Beebe White
Isidore Wachsman	John Harvey Wigginton
Robert Buchanan Wade	Walter Dwight Wilcox
Richard Chas. Wells Wadsworth	Edward Mason Williams
Alexander Hamilton Wallis	Morris Woodruff, Jr.
John Dorrance Warnock	Alfred Charles Woolner
Lemuel Aikin Welles	Wilbur Seaman Wright
Carl Westerfeld	Frederick Washburn Yates
Arthur Leslie Wheeler	

MASTERS OF ARTS

Arthur Biddle, B.A. }	Vertner Kenerson, B.A. }
Yale University 1873 }	Yale University 1891 }
Joseph Dunn Burrell, B.A. }	George John McAndrew, B.A. }
Yale University 1881 }	Yale University 1884 }
James William Cain, B.A. }	Edward Lyman Munson, B.A. }
Yale University 1884 }	Yale University 1890 }
Benjamin Franklin Cokely, B.A. }	Jay Webber Seaver, B.A. }
Western College 1889 }	Yale University 1880 }
Edgar William Danner, B.A. }	Frank Strong, B.A. }
Yale University 1891 }	Yale University 1884 }
Theodore Stuart Hart, B.A. }	
Yale University 1891 }	

BACHELORS OF PHILOSOPHY

Roger Cook Adams	Harry Lattimer Bloodgood
Mortimer Harmount Alling	Joseph Judson Brooks, Jr.
William Marvin Armstrong	Walter Frank Brown
James Howard Bailey	Nelson Beardsley Burr
Anson Baldwin	Alexander James Campbell
Joseph Henry Bamberg	James Edward F. Campbell
Donn Barber	Sheldon Cary
Morris Hugus Beall	George Clifford Clark
James Beach Beckett	Herman Daggett Clark, Jr.
Charles Pool Belden	John Williams Coe
William Bart Berger	William Garrard Comly
Walter Spencer Billard	Henry Failing Conner
Oliver Chandler Billings	Lester Wiggins Day
Orland Rossini Blair	James Laird deVou
Laurence Thornton Bliss	Leroy Church Dupee

Ernest Bradford Ellsworth
 Jason Evans
 Mark Ewing
 Joseph Brooks Fair
 Howard Judson Fish
 Marc Milton Fishel
 Frederick Luther Ford
 George Congdon Fouse
 Edward Levi Fox
 Richard Garlick
 Albert Dewitt Gibbs
 William Anthony Granville
 Gaston Gunter
 Robert Ezra Hall
 Ogden Haggerty Hammond
 Samuel Mowbry Hammond, Jr.
 Thomas King Hanna, Jr.
 Howard Joseph Haslehurst
 Arthur Stephen Hawley
 Charles Borland Hill
 Louis Warren Hill
 Frank Elijah Hine
 Charles Wilcox Hitchcock
 Sidney Stone Holt
 William Thomas Hildrup Howe
 Hampton Howell
 Phelps Buttolph Hoyt
 William Churchill Hungerford
 George Albert Hutchinson
 Charles Anthony Ingersoll
 Huson Taylor Jackson
 Harry Churchill January
 William Rankin Johnston
 Charles Oscar Kalman
 John Hume Kedzie, Jr.
 William Lansing, Jr.
 Elmer Arthur Lawbaugh
 Burton Leonard Lawton
 Louis Cicero Lawton
 Harry Blakeman Lewis
 Thomas Henry Lewis

Frank Allen Little
 Samuel Whiter McCaulley
 Vance Criswell McCormick
 Clifford Whiting McGee
 William McKell
 Charles Eugene McLane
 Fred Bogart McMullen
 Herbert Yarwood McMullen
 Leonard Mandel
 Harold Chauncey Matthews
 Edward Anthony Mitchell
 Lysander Royster Moore, Jr.
 John P. Munson, B.S.
 University of Wisconsin 1887 }
 Henry Hotchkiss Murray
 Oliver Peter Nicola
 Herbert Leroy Potter
 Joseph Hyde Pratt
 Harry Parks Ritchie
 Allan Appleton Robbins
 Edward Olin Smith
 Frederick Clarence Spencer
 Alfred Hull Stevens
 William Petheric Stevens
 Raymond French Stoddard
 Bradley Stoughton
 Frederick Enos Stow
 Richard Pearson Strong
 Richard Schoonmaker Suydam
 William Buffum Thompson
 Albert Leverett VanHuyck
 McLane VanIngen
 John Henry Vought
 Robert William Whitehead
 Howard Dudley Wiggins
 Ira Edward Wight
 Clarence Cicero Wilson, B.A. }
 Yale University 1892 }
 Wallace Charles Winter
 Ernest Strong Witbeck

CIVIL ENGINEERS

Arthur Eli Booth, PH.B. }	John David Shattuck, PH.B. }
Yale University 1891 }	Yale University 1891 }
Arthur Chapin Pease, PH.B. }	Albert Lowry Webster, PH.B. }
Yale University 1891 }	Yale University 1879 }

MECHANICAL ENGINEER

Sterling Haight Bunnell, PH.B. Yale University 1891

DOCTORS OF PHILOSOPHY

Frederic Elijah Beach, PH.B. }	Jeremiah K. Light, B.A. }
Yale University 1883 }	Franklin and Marshall Coll. 1889 }
Charles Bemis Bliss, B.A. }	Lafayette Benedict Mendel, B.A. }
Yale University 1890 }	Yale University 1891 }
Carl August Blomgren, B.A. }	Edward Bagby Pollard, B.A. }
Augustana College 1885 }	Richmond College 1886 }
Edward Franklin Buchner, B.A. }	Artemas Ward Reynolds, B.A. }
Western College 1889 }	Colgate University 1885 }
Arthur Willis Colton, B.A. }	Erwin William Runkle, B.A. }
Yale University 1890 }	Western College 1890 }
Hippolyte Gruener, B.A. }	Henry Lord Wheeler, PH.B. }
Yale University 1891 }	Yale University 1890 }

BACHELORS OF DIVINITY

Otis Webb Barker, B.A. }	Frank Butler Doane, B.A. }
Amherst College 1884 }	Amherst College 1890 }
Edgar Franklin Blanchard, B.A. }	Evan Evans, B.A. }
Bates College 1888 }	Marietta College 1890 }
Edward Shepard Bromer, B.A. }	Charles Edward Ewing, B.A. }
Ursinus College 1890 }	Amherst College 1890 }
Reginald Victor Bury	George Henry Ewing, B.A. }
Bert Francis Case, B.A. }	Amherst College 1890 }
Yale University 1890 }	George Henry Flint, M.A. }
Samuel Davies	Williams College 1890 }
Albert Putnam Davis, B.A. }	Henry Martin Goddard, B.A. }
Amherst College 1887 }	Middlebury College 1890 }
Boothe Colwell Davis, B.A. }	Lincoln Baker Goodrich, B.A. }
Alfred University 1890 }	Amherst College 1888 }

Charles Edward Harris, B.A. }	Robert Paton, B.A. }
Yale University 1885, M.A. }	Oberlin College 1888 }
Columbia College 1886 }	Frank Curtiss Putnam, B.A. }
Fosdick Beach Harrison, B.A. }	Amherst College 1890 }
Amherst College 1890 }	Harry Elmer Small, B.A. }
Richard Henry Hughes }	Amherst College 1890 }
Edward Everett Keedy, B.A. }	Wilson Reed Stewart, B.A. }
Lebanon Valley Coll. 1889 }	Wittenberg College 1890 }
John Lincoln Keedy, B.A. }	Charles Prest Wells, B.A. }
Lebanon Valley Coll. 1889 }	Victoria University 1890 }
Harvey Merrill Lawson, PH.B. }	Herbert Pekin Woodin, B.A. }
Yale University 1890 }	Amherst College 1888 }
James McLaughlin, B.A. }	William Michael Zumbro, B.A. }
Brown University 1890 }	Western Coll. 1888, M.A. }
Warren Joseph Moulton, B.A. }	Univ. Mich. 1889 }
Amherst College 1888 }	

DOCTORS OF MEDICINE

Ambrose Kirk Brennan }	Franklin Lyman Lawton, PH.B. }
Rollin Blackman Chatfield }	Yale Univ. 1890, <i>cum laude</i> }
Arthur Sanford Cheney, PH.B. }	Isaac Napoleon Porter, B.A. }
Yale University 1890 }	Lincoln University 1890 }
Frederick Stanley Cowles }	Robert Ellsworth Peck, PH.B. }
Wilton Elias Dickerman, B.A. }	Yale University 1890 }
Amherst College 1890 }	Leonard Cutler Sanford, B.A. }
Alejandro García-Aragón, B.A. }	Yale University 1890 }
and PH.B. }	Martial Adolph Scharton }
Coll. San Luis Gonzaga 1888 }	Morris Dore Slattery }
Frederick Carl Goldstein }	Frederick Benoni Sweet, <i>cum laude</i> }
E. Winchester Goodenough, B.A. }	Wm. Charles Wurtenberg, PH.B. }
Yale Univ. 1887, <i>cum laude</i> }	Yale University 1889 }

BACHELORS OF LAWS

William Doolittle Bailey, B.A. }	Julian Jedediah Bishop }
Iowa College 1891 }	James Kingsley Blake, B.A. }
Roger Sherman Baldwin, B.A. }	Yale University 1891 }
Yale Univ. 1890, <i>cum laude</i> }	Dwight Elliot Bowers, B.A. }
John Wallace Banks, B.A. }	Yale University 1887 }
Yale University 1889 }	Elmer Ray Brady }
Charles Roderick Beers }	Charles Dudley Burnes }
Frank Sheridan Benninghoff, B.A. }	Lawrence Marshall Byers, M.A. }
Yale University 1891 }	Haverford Coll. 1891, <i>cum laude</i> }

- | | |
|--|---|
| Wilson Lee Camden, B.L. } | Waddy Daniel Leeper |
| W. Va. University 1891 } | J. St. Clair McCall, <i>magna cum laude</i> |
| Ernest Wells Campbell | Haines Allen Machesney |
| Jeremiah James Caporale | Malcolm MacLear, B.A. } |
| Alfred Wellington Carter, <i>cum laude</i> | Yale University 1891 } |
| John Joseph Clerkin, B.A. } | David Thomas McNamara |
| Coll. Holy Cross 1877 } | William Brayton Mann |
| James Tobias Coogan | Charles Herbert Mathews |
| Homer Stille Cummings, PH.B. } | Harry Nelson Moon, B.S. } |
| Yale University 1891 } | Mass. Agric. Coll. 1891 } |
| George Milton Curtis, Jr. | Wallace Simon Moyle, B.A. } |
| Cornelius Joseph Danaher | Yale Univ. 1891, <i>cum laude</i> } |
| Samuel Allen Davis | John Hall Musgrave |
| Harry Goodyear Day, PH.B. } | Leslie Wickham Newberry, <i>cum laude</i> |
| Yale University 1890 } | John Thomas O'Keefe |
| James Dudley Dewell, Jr. | Daniel Louis Parsons |
| Dana Pitt Foster, B.A. } | David Whitman Parsons, B.A. } |
| Colby University 1891 } | Colby Univ. 1891, <i>cum laude</i> } |
| Daniel Fred Fowler | Wilfred Montessor Peck |
| Katsuturo Fukushima | Alfred Horace Phelps, B.A. } |
| Robert Miles Gignoux | Northwestern Univ. 1891, } |
| Bernard Gilpin, Jr. | <i>magna cum laude</i> } |
| Arthur Collins Graves, B.A. } | Bamford Albert Robb, <i>cum laude</i> |
| Trinity College 1891 } | Alex. Geo. M. Robertson, <i>cum laude</i> |
| Lee Gray | Paul Russo |
| Frank David Haines | Daniel Seales, Jr., B.A. } |
| Frank Edward Healy, <i>cum laude</i> | Yale University 1891 } |
| William Thurston Hincks, B.A. } | Redford Brian Tunstall Sharpe |
| Yale University 1891 } | Walter Campbell Shoup |
| John Hone, Jr., B.A. } | George Howard Stanton |
| College of N. J. 1891 } | Isadore Abraham Stein |
| Jesse Wheeler Hubbard | Jesse Adelbert Stewart |
| Geo. Henry Huddy, Jr., <i>cum laude</i> | John Dewell Swain |
| Frank William Igo | John Quillin Tilson, B.A. } |
| Milton Cleaveland Isbell, PH.B. } | Yale University 1891 } |
| Yale University 1891 } | Rollin Usher Tyler, B.A. } |
| Richard Everett Jeffery | Yale University 1886 } |
| Charles Poole Kellogg, B.A. } | George Stewart Walton, B.A. } |
| Yale University 1890 } | Yale University 1891 } |
| Ulysses S. Grant Kendall, B.S. } | James Parsons Woodruff, B.A. } |
| Nat. Norm. Univ. 1890 } | Amherst College 1891 } |
| Thomas Francis Lawlor | Brent Kelley Yates |

MASTERS OF LAWS

Edwin Franklin Hall, LL.B. {	Sanford Bouck Martin, LL.B. {
Yale University 1893, <i>cum laude</i> }	Yale Univ. 1892, <i>cum laude</i> }
William Angus Hamilton, LL.B. {	Richard Frank Price, LL.B. {
Cornell University 1889 }	State Univ. of Iowa 1889 }

DOCTORS OF CIVIL LAW

John Aaron Hooper, M.L. {	Robert Clark Morris, M.L. {
Yale University 1892 }	Yale University 1892 }
Sukehide Kabayama, M.L. {	Andrew Wilson, M.L. {
Yale University 1892 }	Yale University 1892 }

HONORARY DEGREES:

DOCTORS OF DIVINITY

Rev. Hiram Bingham, B.A. {	Rev. Robert Forman Horton, B.A. {
Yale University 1853 }	Oxford University 1878 }
Rev. George Angier Gordon, B.A. {	Rev. Henry Albert Stimson, B.A. {
Harvard University 1881 }	Yale University 1865 }

DOCTORS OF LAWS

Hon. Chas. Bartlett Andrews, B.A. {	Hon. John Andrew Peters, B.A. {
Amherst College 1858 }	Yale University 1842 }
Hon. Wilson Shannon Bissell, B.A. {	John William Sterling, B.A. {
Yale University 1869 }	Yale University 1864 }
Martin Kellogg, B.A. {	Hon. William Howard Taft, B.A. {
Yale University 1850 }	Yale University 1878 }
Frederick Law Olmsted	

MASTERS OF ARTS

Walter Allen, B.A. {	John Francis Logie
Yale University 1863 }	Alex. Caldwell McClurg, B.A. {
William Loring Andrews	Miami University 1853 }
Daniel Hudson Burnham	George Manierre
Rev. Sylvester Clarke, D.D. {	Frank Arthur Mitchell
Univ. of the South 1888 }	Theodore Gordon Peck
William Lewis Elkin, PH.D. {	George Richards, B.A. {
Strassburg 1880 }	Yale University 1872 }
Henry Strong Gulliver, B.A. {	James Bradford Ryder
Yale University 1875 }	Rev. Jos. Joachim Synnott, B.A. {
Allen Maxcy Hiller	St. Francis Xavier Coll. 1882, }
Hon. Henry Elias Howland, B.A. {	D.D. Innsbruck, 1888 }
Yale University 1854 }	

HONORS IN THE ACADEMICAL DEPARTMENT

HONORS IN ALL STUDIES, CLASS OF 1893

ORATIONS

WILLIAM REYNOLDS BEGG

WINTHROP EDWARDS DWIGHT

CHARLES JARVIS FAY
 { WENDELL MELVILLE STRONG
 { ISIDORE WACHSMAN
 { JAMES EDWARD GRAFTON
 { HARRY SELDEN VAILE
 ARTHUR LESLIE WHEELER

LOGAN HAY
 CHARLES BROWN EDDY
 WILLIAM JUDSON LAMSON
 { THEODORE WOOLSEY HEERMANCE
 { JOHN DORRANCE WARNOCK

Charles Wilder Bosworth
 Thomas Ives Chatfield
 George Mason Creevey
 Charles Hull Ewing
 Frank William Hastings, Jr.
 Alfred Kindred Merritt

Alton William Peirce
 George Howard Rice
 Louis Barcroft Runk
 Lemuel Aiken Welles
 Albert Beebe White
 Alfred Charles Woolner

Christopher Lester Avery, Jr.
 Henry Selden Bacon
 William Bradford Boardman
 Howard Sidney Bownes
 Archer Linwood Faxon
 John Howe Field
 John LeRoy Hurlbert

Irving Phillips Lyon
 George Edward Mills
 Alfred Goldstein Nadler
 Harry Campbell Quintard
 Albert Judson Shaw
 Webster Wheelock
 Wilbur Seaman Wright

DISSERTATIONS

Franklin Jones Abbe
 James Addison Babbitt
 Henry Burr Barnes, Jr.
 William Edwin Breckenridge
 Lawrence Edward Brown
 Wendell Greene Brownson
 Otho Granford Cartwright
 Frank Edward Donnelly
 Edson Fessenden Gallaudet

William Henry Hackett
 Arthur James Martin
 William Lewis Newton
 Albert Hutchinson Putney
 Derby Rogers
 Samuel Scoville, Jr.
 Samuel Reid Spencer
 Robbins Battell Stoeckel
 John Booth Thomas

DISPUTES

John Whitney Avery
 Ellery Alphonso Bates
 Harry Llewellyn Bixby
 Thomas Hamilton Breeze
 Cornelius Sanford Bull
 Frank Howard Button

Nehemiah Candee
 Henry Horlbeck Ficken
 James Charles Fox
 Giles Frederic Goodenough
 Charles Andrew Graham
 Arthur Lawrence Greer

William McKimmie Higgins
 Richard Thayer Holbrook
 Riverda Harding Jordan
 Frederick Merwin Lloyd
 William James McKenna
 Walter Rumsey Marvin
 Edward Thomson Mathison

William Henry Murphy
 William Allan Osborn
 John Trumbull Robinson
 William Clement Scott
 Dexter Edgar Tilley
 Edward Holman Tracy

John Weston Allen
 Lafon Allen
 Alvah Stone Chisholm
 John Smith Cravens
 Howard Dorrance Day
 Ben Hodge
 Edwin Ruthven Lamson

George Greene Martin
 Emerson Root Newell
 Francis Parsons
 George Brown Spalding
 Richard Chas. Wells Wadsworth
 Ernest Hubbard Wells

COLLOQUIES

George Palmer Beebe
 George Justus Briggs
 Theodore Louis Bristol
 Charles Walker Clark
 James Barclay Cooke
 Elliot Stone Curtis
 Francis Oswald Dorsey
 William Walton Eccles
 Charles Ralph Hickox, Jr.
 Charles Davies Jones

Walter Parmelee Judson
 Adrian VanSinderen Lambert
 Burton Emerson Leavitt
 Hubert Merrill Sedgwick
 Carlyle Edgar Sutphen, Jr.
 Wm. Stoutenborough Terriberry
 Herbert Gorden Thomson
 Charles Gallaudet Trumbull
 Carl Westerfeld
 Walter Dwight Wilcox

Joseph Anderson, Jr.
 Henry Colwell Beadleston
 Ralph Birdsall
 Frank James Brown
 William Thomas Capps
 John Percival Edmison
 Irving Bruce Ferguson
 Frank Edwin Gatchel
 Montgomery Hare

Shubael Cady Hutchins
 Homer Thrall Joy
 Irwin Boyle Laughlin
 Arthur Power Lord
 Albert Hooker Morse
 Charles Macauley Pope
 Joseph Roby
 Edward Mason Williams

HONORS IN SPECIAL STUDIES

TWO-YEAR HONORS

In Political Science :
 Logan Hay

In History :
 Albert Judson Shaw

In Political Science, History, Law :
 Albert Hutchinson Putney

In French :
 Richard Thayer Holbrook

In Classics :
 James Edward Grafton
 Arthur Leslie Wheeler

In Natural and Physical Science :
 Ben Hodge

ONE-YEAR HONORS

In Philosophy :

Albert Hooker Morse

Henry Horlbeck Ficken

John LeRoy Hurlbert

Edwin Ruthven Lamson

John Booth Thomas

Thomas Cann Trask

In Political Science :

John Weston Allen

Lafon Allen

Henry Selden Bacon

Charles Brown Eddy

George Ernest Folk

George Howard Rice

Edward Holman Tracy

Ernest Hubbard Wells

Wilbur Seaman Wright

In German :

James Edward Grafton

In Natural and Physical Science :

Theodore Louis Bristol

In History :

John Weston Allen

William Bradford Boardman

Archer Linwood Faxon

In Mathematics :

Jesse Breland Johnson

Wendell Melville Strong

John Booth Thomas

JUNIOR APPOINTMENTS

YALE COLLEGE, CLASS OF 1894

PHILOSOPHICAL ORATIONS

SAMUEL STOKES ALLEN

EDWARD RICHMOND BOSLEY

FRANK HERBERT CHASE

HENRY SHEPHERD DAWSON

THOMAS WARRINGTON GOSLING

ERNEST KNAEBEL

ROBERT HASTINGS NICHOLS

EDWARD BLISS REED

EDWARD RUSSELL THOMAS

WILLIAM EDWARD THOMS

WILLARD GIBBS VANNAME

GEORGE FINCH VANSLYCK

ORATIONS

Joseph Platt Cooke

Thomas Frederick Davies, Jr.

George Elias Dorland

Louis Packard Gillespie

Herbert Humphrey Kellogg

William Miner Raymond

Charles Rives Skinker

Rest Fenner Smith, Jr.

Harry Payne Whitney

William Runk Wright

William Bacon Bailey
 Harry Samuel Bandler
 James Crosby Brown
 James Elwyn Brown
 Frank Scott Bunnell
 William Genung Chase
 Walter Barnes Cruttenden
 Arthur Gillespie Dickson
 Frederick Dwight
 Theodore Eaton
 Arthur Wells Elting
 John Henry Goss
 Arthur Judson

Raymond Lloyd
 Charles Noyes Loveland
 Henry Shore Noon
 Charles Grosvenor Osgood, Jr.
 Warwick James Price
 Harry Simeon Richardson
 Harry Shevelson Silverstien
 Leonard Bacon Smith
 James Henry Taylor
 Milton Jones Warner
 Milton Ferdinand Westheimer
 Shelton King Wheeler
 James Dawes Williams

DISSERTATIONS

Alexis Painter Bartlett
 Albert Simmons Briggs
 Alphonso Bickford Brown
 William Clayton Crafts
 Harry Westbrook Dunning
 George Francis Eaton
 Walter Deyo Hood

Frederick Love Keays
 Buell McKeever
 Isaac King Phelps
 Charles Philemon Rowley
 Leland Stanford Stillman
 Henry Brownell Tucker
 Charles Francis Word

DISPUTES

William Spencer Beard
 Ward Robinson Clarke
 Allen Ross Defendorf
 Warren W. Guthrie, Jr.
 Hall Park McCullough
 Winthrop McKim
 William Russell Moorhouse
 Joseph Elias Morgan

John Edward Morley
 Alonzo Potter
 George Hope Ryder
 Eugene Wilson Skelton
 Howard Franklin Smith
 James Rutherford Trowbridge
 Walter Abbott Waterman
 Nathaniel Niles Wilson

George Bowen Case
 Edward Marvin Day
 Thomas Long Ellis
 Albert Nelson Cheney Fowler
 Gervase Green
 Charles Henry Hall, Jr.
 John Loomer Hall
 Charles Nelson Hulburt
 Howard Asa Lamprey
 Edward Herman Lay
 William Henry Leete
 Charles Pleasants Lineaweaver

Ralph Longenecker
 Walter Whitney Lounsbury
 Edward Hill McCray
 Frank Elmer McDuffee
 Harry Brent Mackoy
 Henry Perkins Moseley
 George William Olmsted
 Alfred Macauley Pope
 William Henry Sallmon
 Alfred Worthington Stone
 William Todd
 Frederic Jabez Waters

COLLOQUIES

Raymond Holbrook Arnot
 Samuel Burr Sherwood Bissell
 Walter Reid Callender
 John Payson Chamberlain
 Frederick Shepard Chapman
 Ferdinand Swift Crosley
 Bayard Dominick, Jr.
 Meredith Hare
 George Cooley Hixon
 Hamilton Holt
 Ralph Squire Hull

John Edward Lane
 Ralph Reed Lounsbury
 Samuel Lowry Orr
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UNDERGRADUATE SCHOLARS OF THE HOUSE,
 YALE COLLEGE, 1893-94:

WOOLSEY Scholars—Class of 1894, HENRY S. DAWSON, JR.; Class of 1895, GEORGE D. KELLOGG; Class of 1896, JOHN M. GAINES.
 SCOTT HURTT Scholars—Class of 1894, WILLIAM E. THOMS; Class of 1895, ELWIN H. GLEASON.
 THOMAS GLASBY WATERMAN Scholars—Class of 1894, ARTHUR JUDSON; Class of 1895, GEORGE D. KELLOGG.
 ALFRED BARNES PALMER Scholar—Class of 1896, JOHN M. GAINES.
 HURLBUT Scholar—Class of 1896, LEWIS R. CONKLIN.
 THIRD FRESHMAN Scholar—Class of 1896, ALBERT G. KELLER.

UNIVERSITY PRIZES, AWARDED JUNE, 1893 :

JOHN A. PORTER Prize—Julian I. Chamberlain, Class of 1895, Yale College; with favorable mention of Waddy D. Leeper, Class of 1893, Yale Law School, and John A. Hooper, M.L., Graduate Student, Yale Law School.

Committee of Award : President Dwight ;

Edward G. Coy, M.A., Lakeville, Conn.;

Wm. Lyon Phelps, PH.D., Yale College.

COBDEN CLUB Medal—Winthrop E. Dwight, Class of 1893, Yale College.

PRIZES AWARDED IN THE ACADEMICAL DEPARTMENT,

1892-93 :

DEFOREST Prize Medal—Class of 1893, Winthrop E. Dwight.

TOWNSEND Premiums—Class of 1893, T. Woolsey Heermance, Francis Parsons, Albert H. Putney, Derby Rogers, Richard C. W. Wadsworth.

DEFOREST MATHEMATICAL PRIZES—Class of 1893 (Senior Mathematical Prize), Wendell M. Strong; Class of 1894, Edward H. Lay; Class of 1895, 1st Prizes, Walter H. Allen, Clement G. Clarke, George Jacobus, Norton A. Kent, James C. Walworth; 2d Prizes, Shirley T. High, William E. Parsons, Charles S. Thurston; Class of 1896, 1st Prize, John M. Gaines; 2d Prize, Herbert L. Towle; 3d Prize, John C. Adams.

WINTHROP Prize—Class of 1894, William E. Thoms.

HENRY JAMES TENEYCK Prizes, (for the Junior Exhibition)—Class of 1894, 1st Prize, John L. Hall; 2d Prizes, Louis P. Gillespie, Herbert H. Kellogg, Ralph R. Lounsbury, Frederick H. Lynch; Robert H. Nichols, Edward B. Reed, Shelton K. Wheeler.

SCOTT Prizes—Class of 1894, in French, Henry S. Noon; in German, William M. Raymond.

LUCIUS F. ROBINSON Latin Prizes—Classes of 1893 and 1894, 1st Prize, Robert H. Nichols, Class of 1894; 2d Prize, William E. Thoms; Class of 1895; 1st Prize, George D. Kellogg; 2d Prize, Charles S. Thurston; 3d Prizes, Louis H. Holden, Tracy Peck, Jr.

C. WYLLYS BETTS Prize—Class of 1895, Clement G. Clarke.

COLLEGE Prizes in English Composition—Class of 1895, 1st Prizes, Henry A. Baker, Roger S. Baldwin, Julian I. Chamberlain, Lindsay Denison; 2d Prizes, Arthur Bumstead, Frederic R. Galacar, Charles C. Hyde, Alburn E. Skinner.

ELOCUTION Prizes—Class of 1895, In Reading, Edward C. Baldwin ; in Recitation, George F. Truesdell ; in Declamation, Samuel Tyler.

BERKELEY Premiums—Class of 1896, 1st Grade, Philip R. Allen, Lewis R. Conklin, Sherwood O. Dickerman, John M. Gaines, Albert G. Keller, Henry E. McDermott ; Second Grade, John C. Adams, Samuel M. Alvord, George H. Nettleton, Addison S. Pratt, Edwin L. Robinson, Fred O. Robbins, Rudolph Schwill.

HUGH CHAMBERLAIN Greek Prize—Class of 1897, Edward H. Hume, Newton (Mass.), High School ; with honorable mention of Herbert B. Augur, Hartford (Conn.) High School, Huntington Mason and Nathan A. Smyth, Phillips Academy, Andover (Mass.).

PLAINFIELD (N. J.) Prize for the best examination for admission of candidates from that city—Class of 1897, Henry V. Ryder.

PRIZES AWARDED IN THE SHEFFIELD SCIENTIFIC SCHOOL, JUNE, 1893 :

Class of 1893 :

FOR EXCELLENCE IN CIVIL ENGINEERING—William A. Granville, with honorable mention of Roger C. Adams, and Harry B. Lewis.

FOR EXCELLENCE IN MECHANICAL DRAWING—Charles A. Ingersoll, with honorable mention of Joseph H. Bamberg, and Alexander J. Campbell.

THE BELKNAP PRIZE FOR EXCELLENCE IN GEOLOGY AND ZOOLOGY—John W. Coe.

Class of 1894 :

FOR EXCELLENCE IN ALL THE MATHEMATICS OF THE JUNIOR YEAR—Gershom B. Bradley, Jr., with honorable mention of George W. Pike, Jr.

FOR EXCELLENCE IN GERMAN—Frederick W. Kilbourne.

Class of 1895 :

FOR EXCELLENCE IN ALL THE STUDIES OF FRESHMAN YEAR—Frederick E. Newton, with honorable mention of Isaac W. Geer, Harry T. Clifton, and Joseph W. Roe.

FOR EXCELLENCE IN PHYSICS—Joseph W. Roe, with honorable mention of Isaac W. Geer, and Frederick E. Newton.

FOR EXCELLENCE IN GERMAN—Frederick E. Newton, with honorable mention of Allan E. Hall, and George W. Shaw.

FOR EXCELLENCE IN CHEMISTRY—The Prize divided between Harry W. Foote, and Ernest G. Schurig, with honorable mention of Harry T. Clifton, and Francis H. Oldershaw.

FOR EXCELLENCE IN MATHEMATICS—The Prize divided between Isaac W. Geer, and Frederick E. Newton, with honorable mention of Grosvenor N. Allen.

FOR EXCELLENCE IN MECHANICAL DRAWING—The Prize divided between Isaac W. Geer, and George W. Mixter, with honorable mention of Paul B. Belin, Harry T. Clifton, and Halsey A. Weaver.

Class of 1893:

STUDENTS DISTINGUISHED IN THE DEPARTMENT OF MILITARY SCIENCE, whose names will be published in the United States Army Register for 1894—Harry Bloodgood, William T. H. Howe, Charles A. Ingersoll.

PRIZES AWARDED IN THE ART SCHOOL, 1892-93:

ETHEL CHILDE WALKER PRIZE—Harry L. Barker.

Special Prize in COMPOSITION—Mabel McIntosh.

HONORS IN THE MEDICAL SCHOOL, JUNE, 1893:

DEGREE OF DOCTOR OF MEDICINE *cum laude*—Franklin L. Lawton, PH.B.; Edward W. Goodenough, B.A.; Frederick B. Sweet.

CAMPBELL GOLD MEDAL—Franklin L. Lawton, PH.B., with honorable mention of Edward W. Goodenough, B.A.

KEESE PRIZE—Arthur S. Cheney, PH.B., with honorable mention of Leonard C. Sanford, B.A., and Robert E. Peck, PH.B.

OBSTETRICAL PRIZE—Frederick S. Cowles, with honorable mention of Robert E. Peck, PH.B.

PRIZES AWARDED IN THE LAW SCHOOL, JUNE, 1893:

TOWNSEND PRIZE, Class of 1893—Wilfred M. Peck.

Committee of Award: Hon. Charlton T. Lewis, PH.D., New York City.

Hon. Henry H. Ingersoll, LL.D., Knoxville, Tenn.

Roger Foster, Esq., New York City.

JEWELL PRIZE, Class of 1893—J. St. Clair McCall.

O. S. SEYMOUR PRIZE, Class of 1893—Thomas F. Lawler.

MUNSON PRIZE, Class of 1893—Harry G. Day, PH.B.

Committee of Award : William H. Ely, Esq., New Haven, Conn.

John C. Gallagher, Esq., New Haven, Conn.

Leonard M. Daggett, Esq., New Haven, Conn.

BETTS PRIZE, Class of 1894—Howard A. Couse, B.A.

WAYLAND PRIZES (Yale Kent Club Debate)—First prize, Frank E. Healy ; Second prize, Wallace S. Moyle, B.A. ; Third prize, James Kingsley Blake, B.A.

Committee of Award : Chas. Dudley Warner, D.C.L., Hartford, Conn.

Gen. Alfred P. Rockwell, M.A., New Haven, Conn.

Hon. Morris B. Beardsley, Bridgeport, Conn.

HONORS:

Degree of M.L., *cum laude*

Edwin F. Hall, LL.B., Sanford B. Martin, B.A., LL.B.

Degree of LL.B., *magna cum laude*

J. St. Clair McCall, Alfred H. Phelps, B.A.

Degree of LL.B., *cum laude*

Roger S. Baldwin, B.A., Lawrence M. Byers, M.A., Alfred W. Carter, Frank E. Healy, Geo. H. Huddy, Jr., Wallace S. Moyle, B.A., Leslie W. Newberry, David W. Parsons, B.A., Bamford A. Robb, Alex. G. M. Robertson.

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